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CR-133979



NASA-CR-133979) A LOW SPEED WIND TUNNEL
TEST OF THE C.050 SCALE NASA-JSC SHUTTLE
ORBITER 089B TO DETERMINE THE
LONGITUDINAL AND (Vought Aeronautics,
Dallas, Tex.) 244 p HC \$14.25 CSCL 22B

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TITLE

A LOW SPEED WIND TUNNEL TEST OF THE 0.050 SCALE NASA-JSC
SHUTTLE ORBITER 089B TO DETERMINE THE LONGITUDINAL AND
LATERAL-DIRECTIONAL EFFECTS OF CONTROL SURFACE MODIFICATIONS

SUBMITTED UNDER

REPORT NO. <u>LSWT 422</u>	DATED <u>8 June 1973</u>
MODEL <u>0.050 Scale 089B Orbiter</u>	CONTRACT NO. <u>NAS 9-12731</u>
DATE ISSUED	SUPERSEDING

LOW SPEED WIND TUNNEL

TEST NO. 422

TEST DATES: 24 April - 2 May 1973

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REVISIONS

DATE	REV BY	PAGES AFFECTED	REMARKS

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I. INTRODUCTION

General Information

VSD Test Number	422
NASA-JSC Test Number	MA-14
Facility	VSD Low Speed Wind Tunnel(15 by 20-foot Test Section)
Test Dates	24 April - 2 May 1973
Test Dynamic Pressure	6.60 pound per square foot
Occupancy Time	61.75 hours
Test Authorization	NAS 9-12731
NASA Test Representative	E. B. Chambliss
VSD Test Engineer	R. H. Oldenbutt

Test Objective

The purpose of this test was to determine the longitudinal and lateral-directional effects of control surface modifications to the Orbiter 089B.



II. TEST FACILITY, MODEL, AND INSTRUMENTATION

Test Facility

The Vought Systems Division Low Speed Wind Tunnel is a horizontal, single-return facility having tandem test sections of 7 by 10 and 15 by 20 feet. The test dynamic pressure is generated by a 20-foot diameter, six-blade, fixed-pitch propeller which is driven by a 1500-horsepower electric motor. Test velocities of 230 and 52 miles per hour can be obtained in the 7 by 10 and 15 by 20-foot test sections, respectively.

Model

The basic 0.050 scale model of the NASA-JSC Shuttle Orbiter 089B consisted of a wood fuselage with machined aluminum wing spars and vertical fin. All wood surfaces were covered with a layer of glass fiber for added strength.

The fuselage contained a stainless steel beam which was fastened to the adapter of the VSD VTB-6 internal strain-gage balance. An electrolytic bubble package which was used to measure model pitch angles was installed in the model adjacent to the root section of the left wing.

The wing assembly was fastened to the fuselage support block. The elevons were machined of aluminum and were attached to the wing spars by spanwise steel rods. The inboard end of the rods were attached to manually adjustable deflection brackets.

Two sizes of horizontal tails were tested at a high and low position on the aft fuselage section. Other configurations tested were gothic canards which were mounted to the forward section of the fuselage and switch-blade canards which were installed at the leading edge root



II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

section of the wing.

The model was installed in the test section on the VSD VTB-6 internal strain gage balance. The balance was fastened to a straight sting which was attached to the offset sting adapter (IST289, sheet 3) of the standard support system.

Transition strips of Number 36 grit were applied to the upper and lower surfaces of the wings and horizontal tails; both sides of the vertical tail and to the fuselage nose. The grit strips varied in width from 0.125 to 0.188 inches and were applied at 10 percent chord.

Instrumentation

The forces and moments on the model were measured with the VTB-6 internal strain gage balance. The balance was installed such that it was rolled -90 degrees with respect to the model. This was done to use the more sensitive balance side force gages to measure model normal force and pitching moment.

The model geometric angle of attack was set with gravity-sensing, electrolytic levels. The levels were fastened to a bracket which was mounted to the fuselage beam adjacent to the left wing. A separate level was used to measure each angle of attack.



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II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

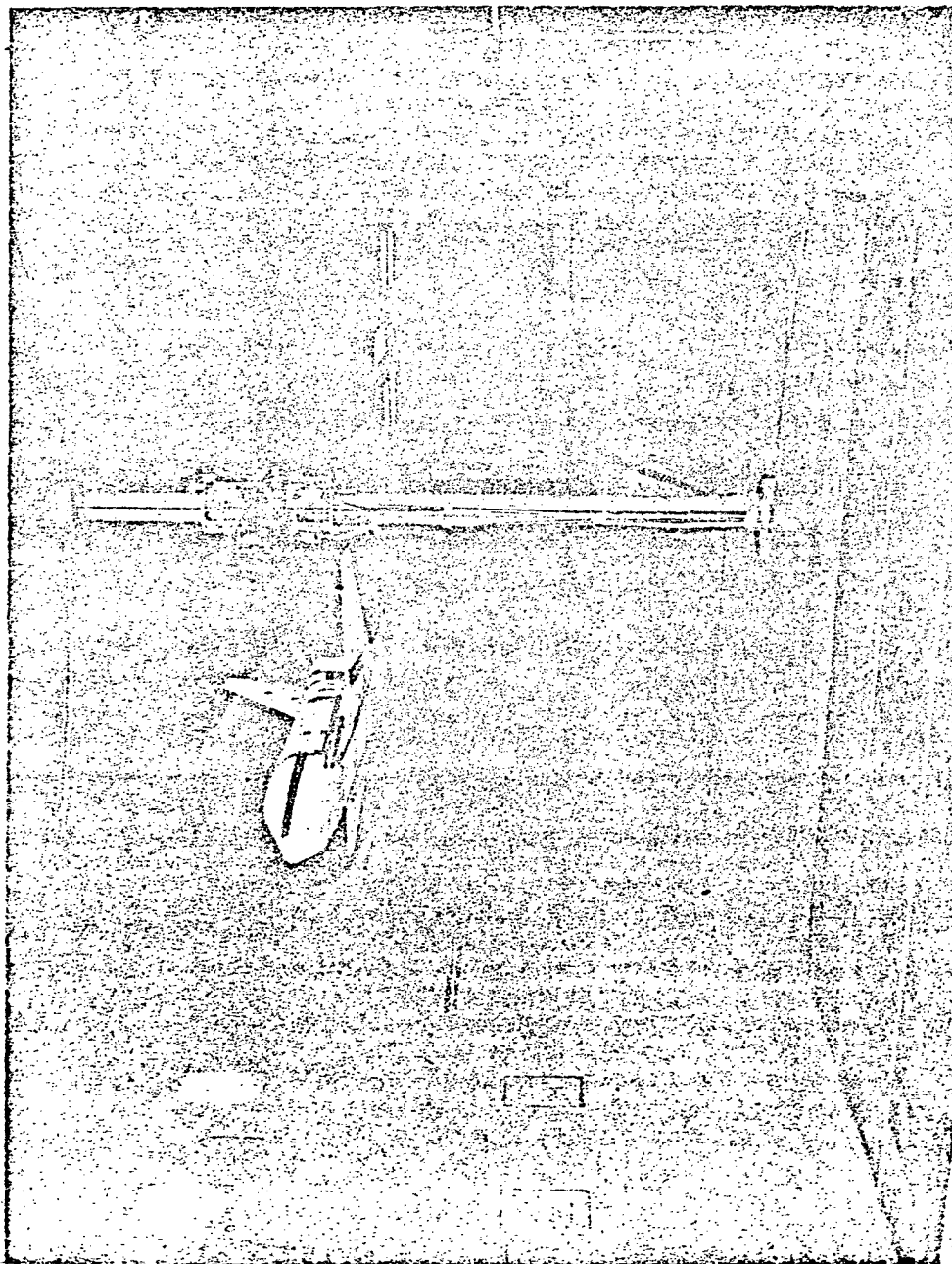


Figure 1. Forward View of Model Installation

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II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

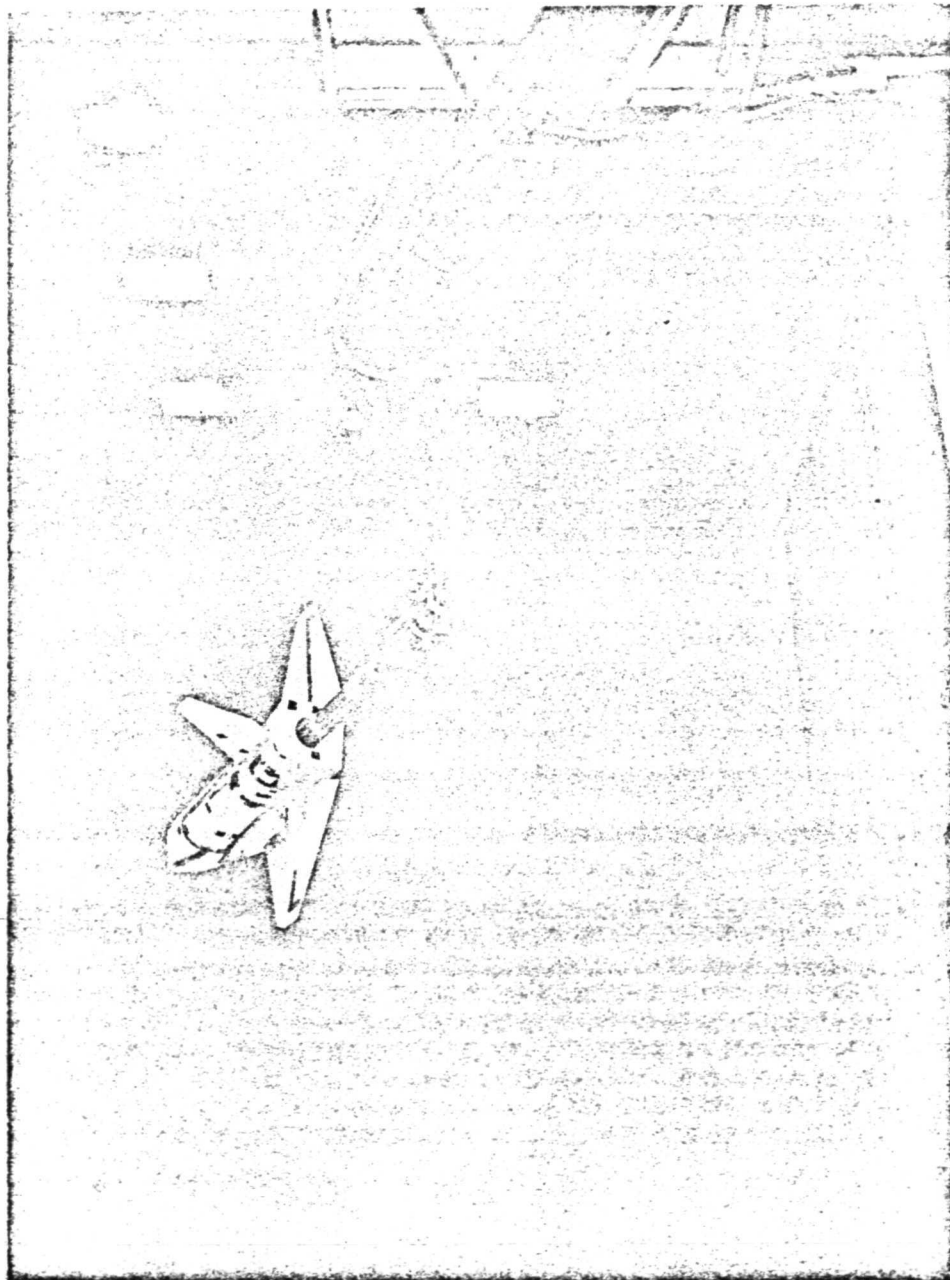


Figure 2. Art View of Model Installation

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II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

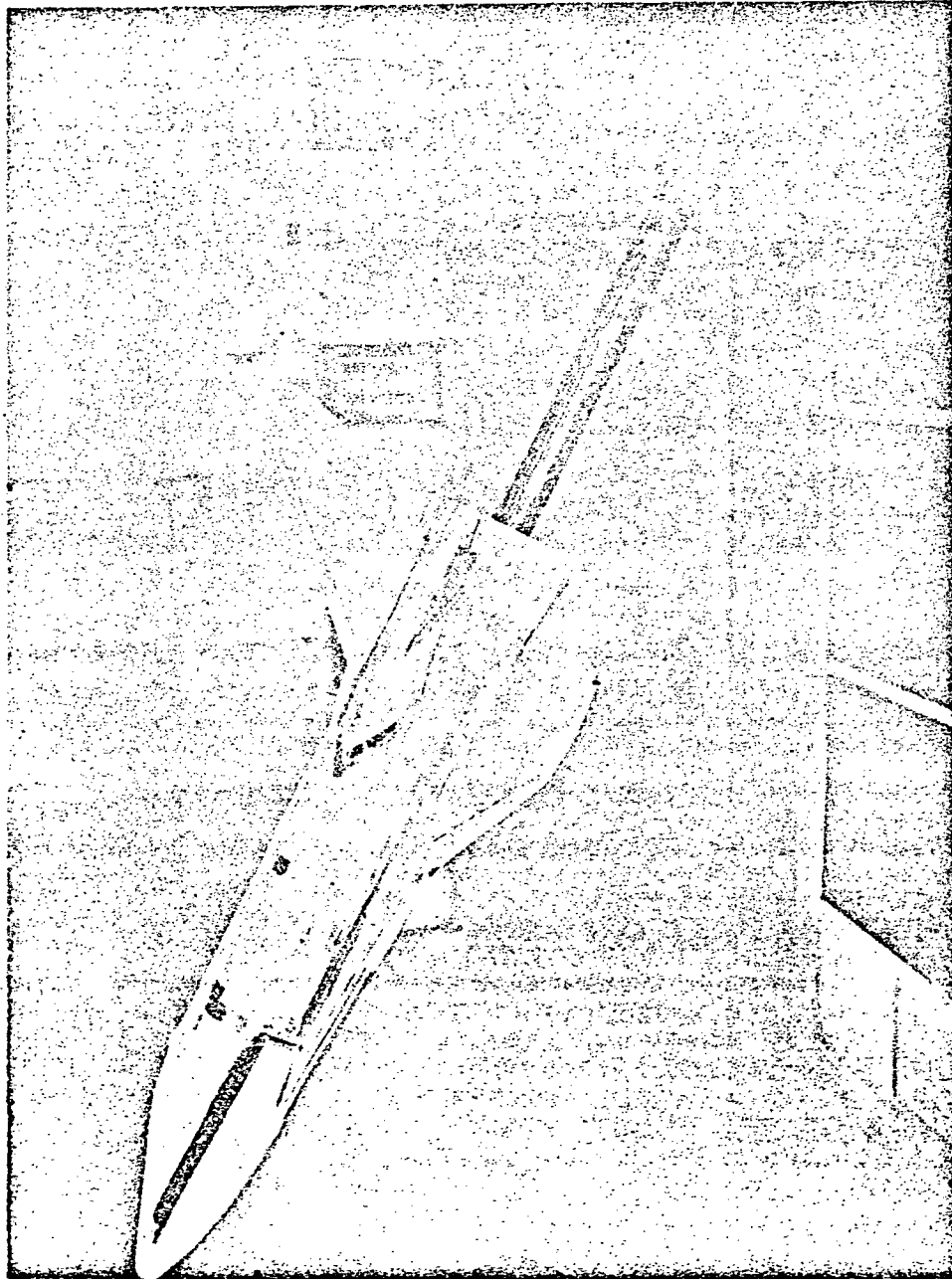


Figure 3. Profile View of O89B Shuttle Orbiter

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II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

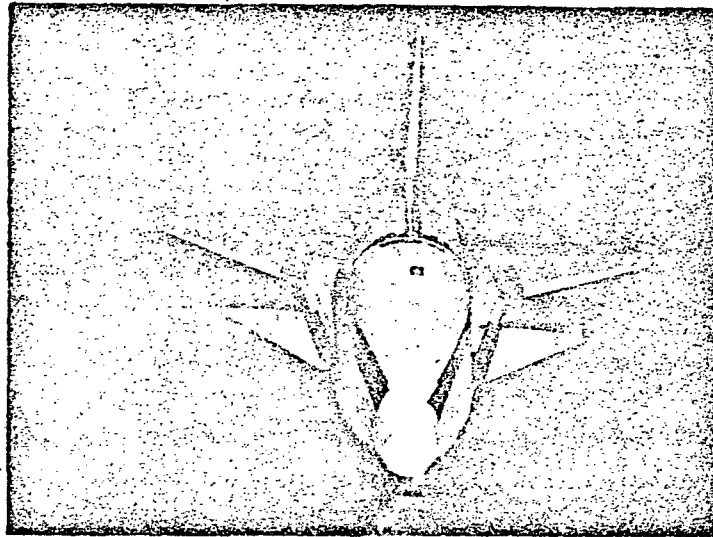


Figure 4. Basic O89B with Switch-Blade Canards.

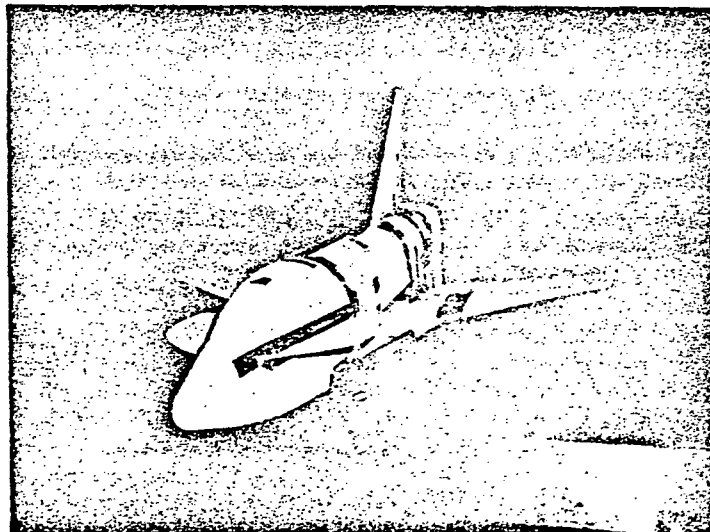


Figure 5. Basic O89B with Gothic Canards.



II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

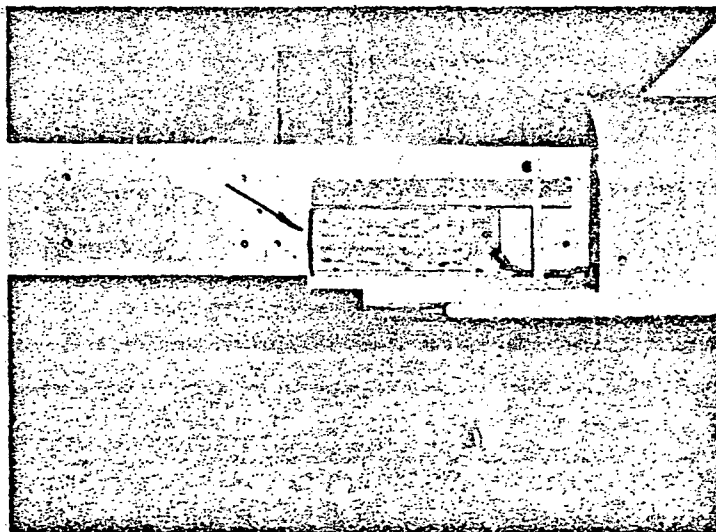
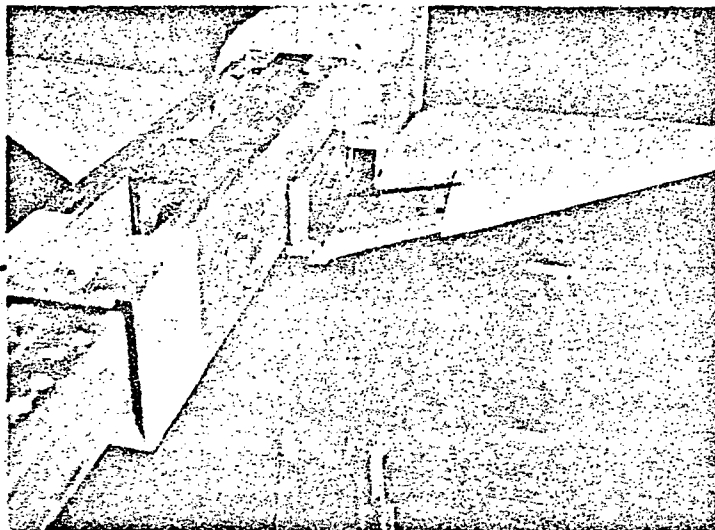


Figure 6. Electrolytic Bubble Levels



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II. TEST FACILITY, MODEL, AND INSTRUMENTATION (cont'd)

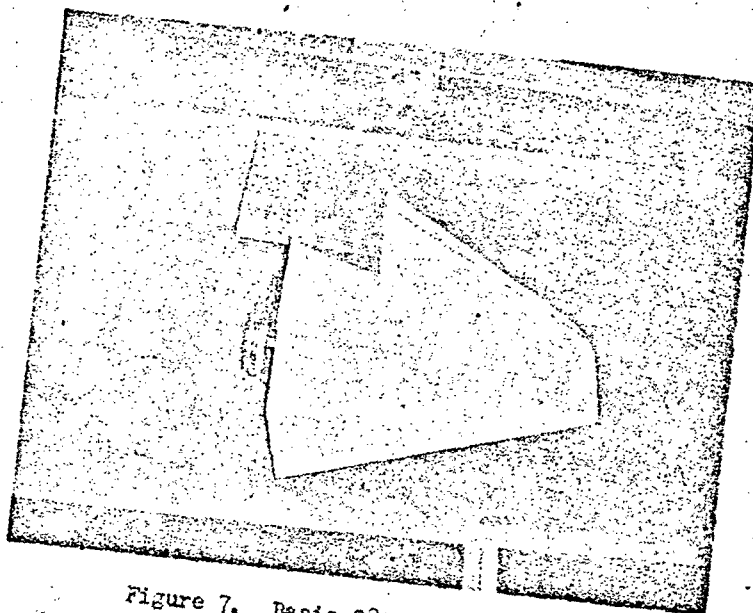


Figure 7. Basic O89B Wing

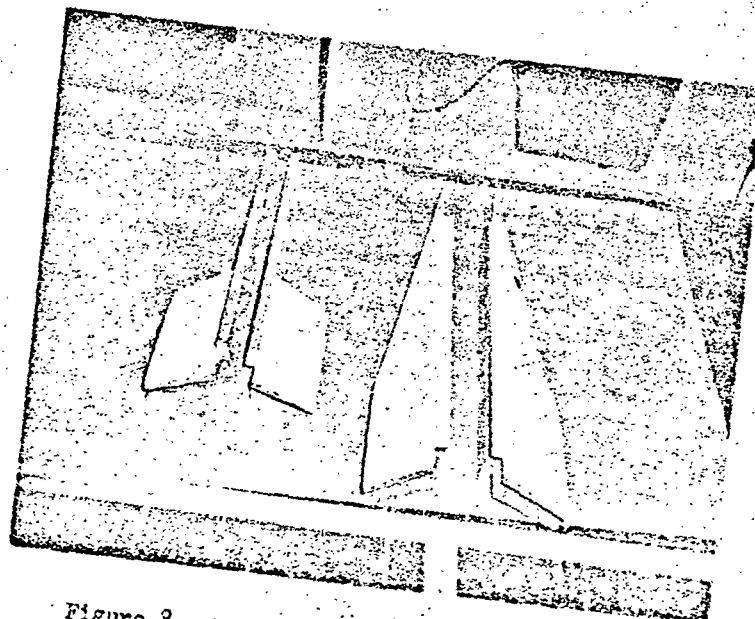


Figure 8. Fairings for W_1 and W_2 Wings

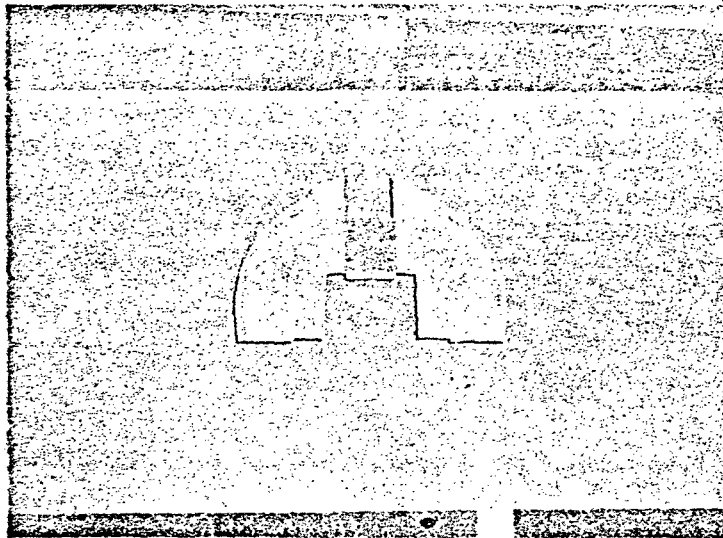


Figure 9. Gothic Canard



Figure 10. Switch-Blade Canards.



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II. TEST FACILITY, MODEL, AND INSTRUMENTATION(con'td)

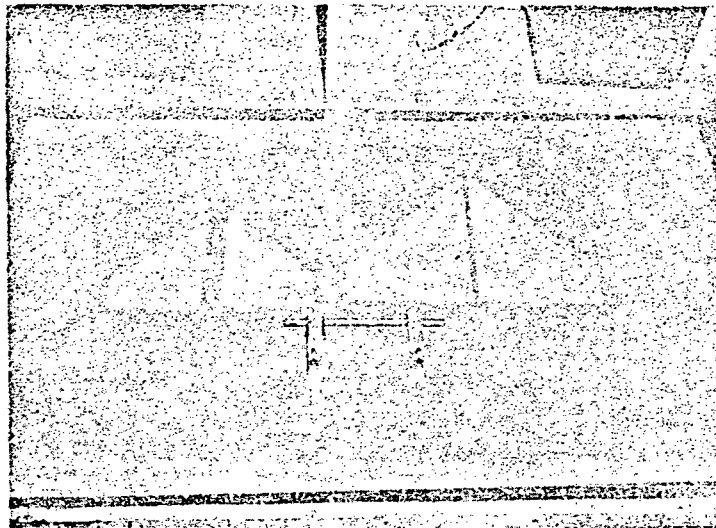


Figure 11. Axle-Mounted Horizontal Tails(H_1^1 and H_2^1)

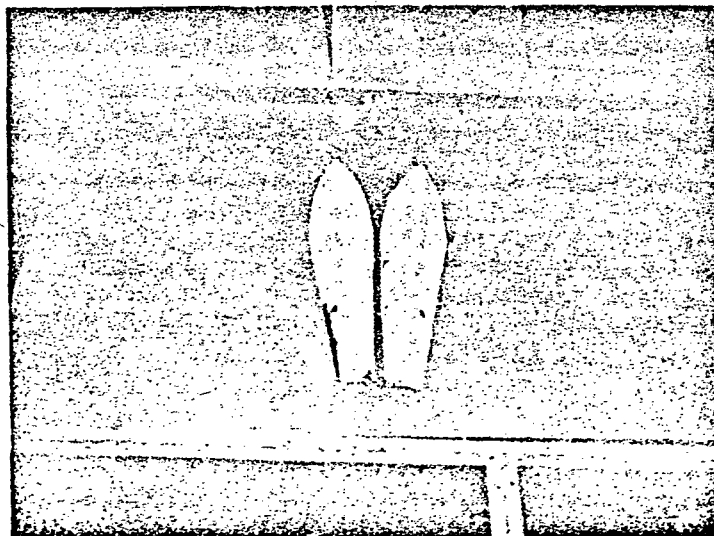


Figure 12. Horizontal Tail Root Pairings

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II. TEST FACILITY, MODEL, AND INSTRUMENTATION(cont'd)

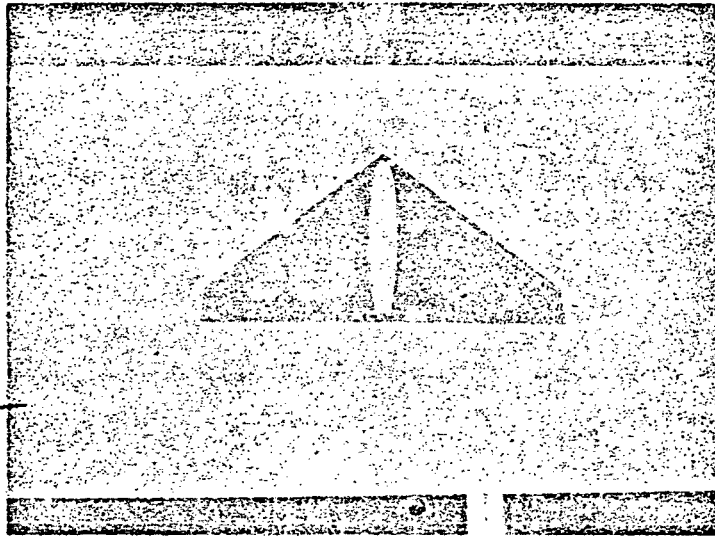


Figure 13. Small One-Piece Horizontal Tail(H_1)

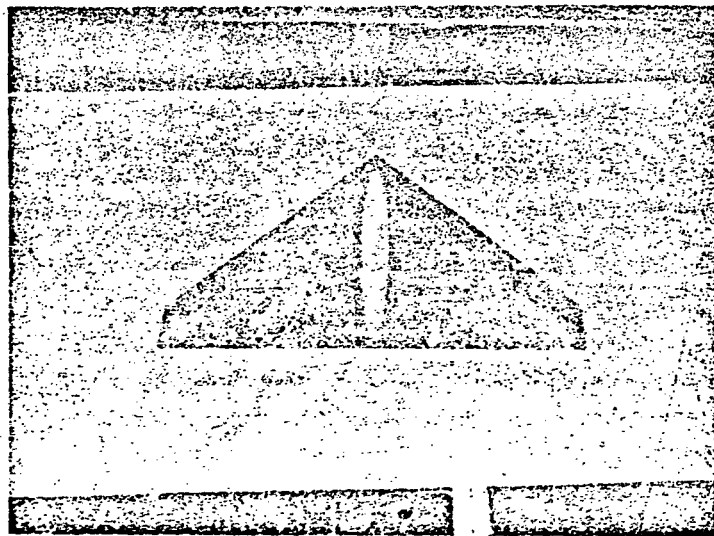


Figure 14. Large One-Piece Horizontal Tail(H_2)

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III. TEST PROCEDURE AND RESULTS

The 0.050 scale model of the NASA-JSC O89B Shuttle Orbiter was tested in the Vought Systems Division 15 by 20-foot test section of the Low Speed Wind Tunnel. The test was conducted during the period of 24 April to 2 May 1973.

A total of 103 data runs was made which consisted of pitch runs through a range from zero to 28 degrees at a zero yaw angle and yaw runs from $\beta = -6$ to $+6$ degrees while at fixed pitch angles of 0, 4, 10, 16 or 20 degrees. The entire test was run at a freestream dynamic pressure of 6.60 pounds per square foot with the model at the center of the test section.

At each data point, data from the VTB-6 internal strain gage balance was sampled with the digital data system. Also recorded were the model angles of pitch and yaw and the test section static pressure.

The results of this test are presented in the form of tabulated aerodynamic coefficient data about the model moment reference center.

IV. NOMENCLATURE AND SYMBOLS

<u>Symbol</u>	<u>Description</u>
α	Model geometric angle of attack, degrees
ψ	Model geometric yaw angle, degrees
b	Wing span, feet
$B.L.$	Buttock line, inches
\bar{c}	Mean geometric chord, inches
C_A	Axial force coefficient uncorrected for base pressures, axial force/ qS
C_D	Drag coefficient, drag/ qS
C_L	Lift coefficient, lift/ qS
C_l	Rolling moment coefficient, rolling moment/ qSb
C_m	Pitching moment coefficient, pitching moment/ $qS\bar{c}$
C_N	Normal force coefficient, N/qS
C_n	Yawing moment coefficient, yawing moment/ qS
C_Y	Side force coefficient, side force/ qS
$F.S.$	Fuselage station, inches
$M.R.C.$	Moment reference center, inches
P_s	Test section static pressure
q	Test dynamic pressure corrected for blockage and compressibility, pounds per square foot
RN/FT	Reynolds number per foot
S	Wing area, square feet
$Temp$	Test section temperature, degrees Fahrenheit
V	Test section freestream velocity, feet per second
$W.L.$	Water line, inches

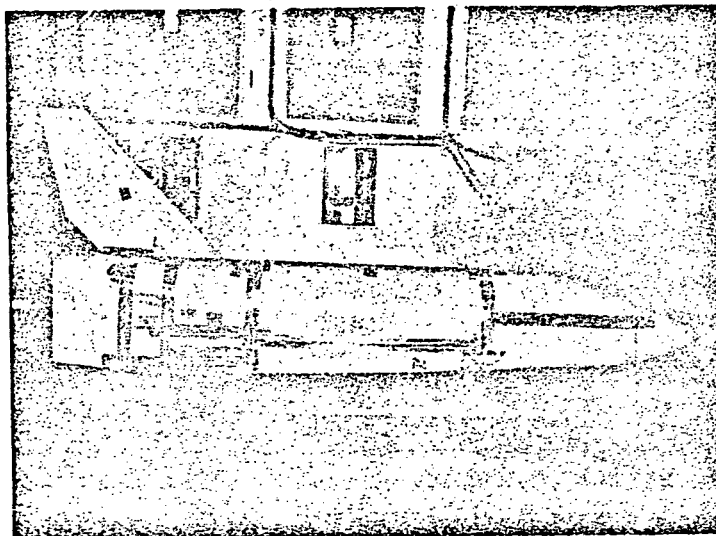


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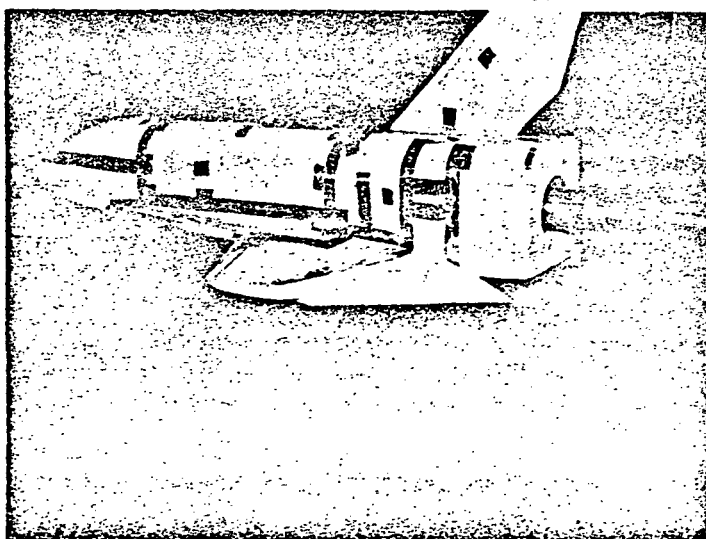
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IV. NOMENCLATURE AND SYMBOLS (cont'd)

B_1 040A body with a 4.45-inch aft end extension.



e^n Elevator. Superscript denotes deflection, degrees.



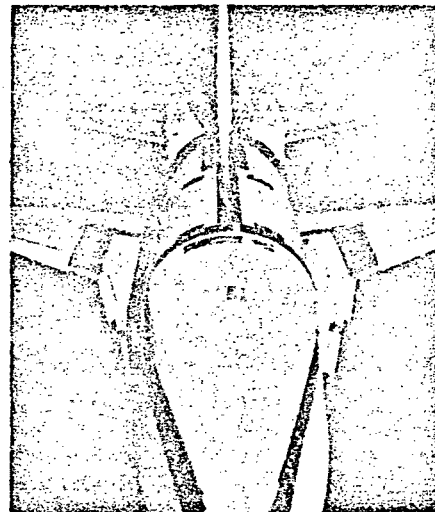
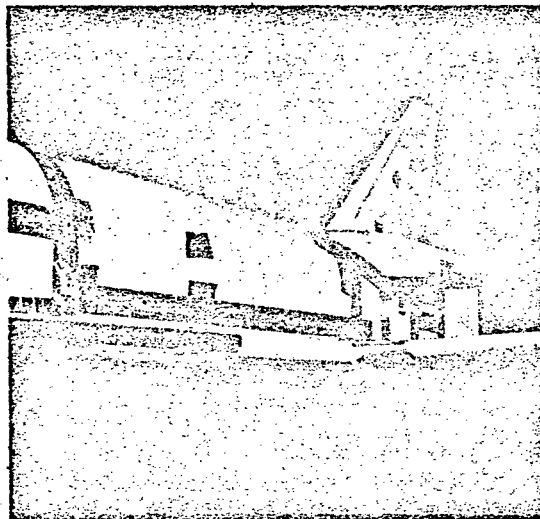


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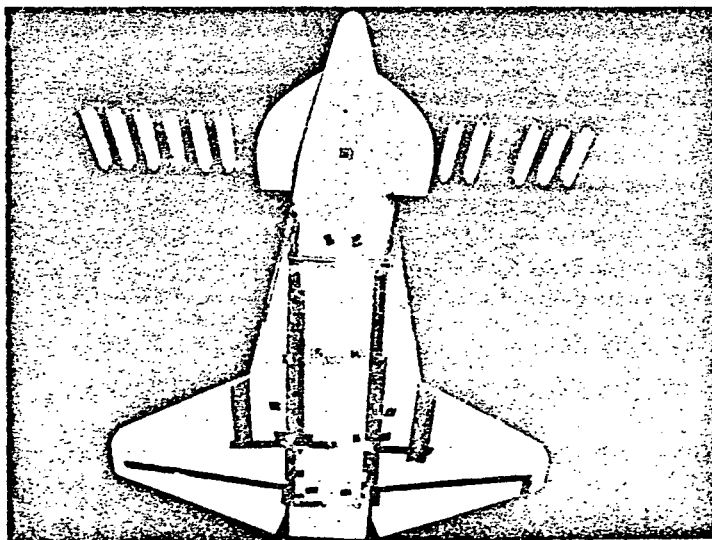
IV. NOMENCLATURE AND SYMBOLS (cont'd)

F. Horizontal tail fairings.



GC₁

Gothic canard located in the forward position such that the trailing edge of the canard was located 22.50 inches forward of the intersection of the wing and glove leading edges.



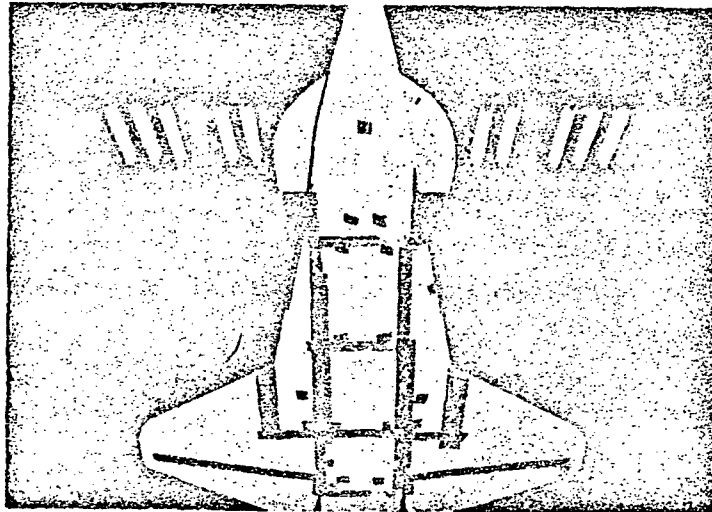


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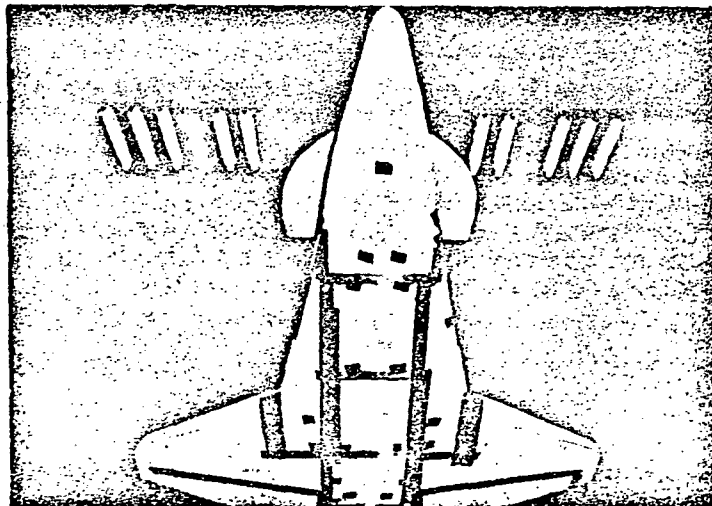
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IV. NOVENCLATURE AND SYMBOLS(cont'd)

- GC₂ Gothic canard located in the mid position such that the trailing edge of the canard was located 20.0 inches forward of the intersection of the wing and glove leading edges.



- GC₃ Gothic canard located in the aft position such that the trailing edge of the canard was located 17.50 inches forward of the intersection of the wing and glove leading edges.



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IV. NOMENCLATURE AND SYMBOLS (cont'd)

$H_{1F}^{X,Y}$

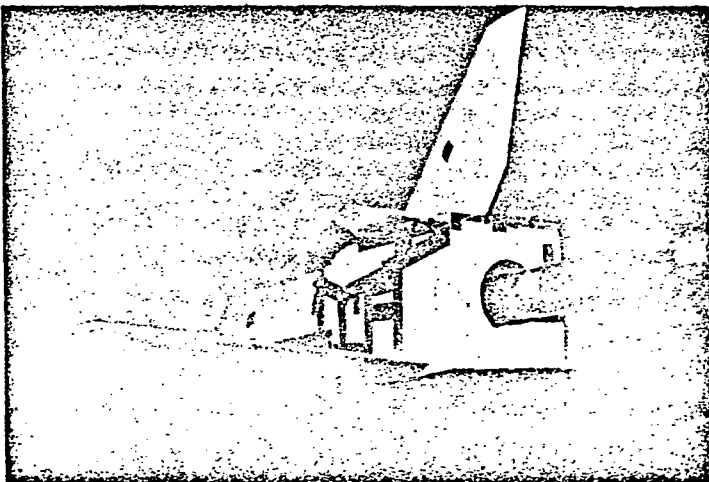
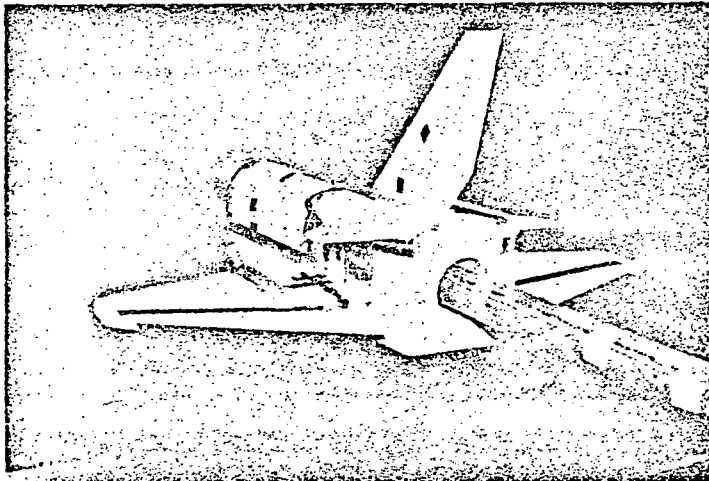
Small horizontal tail. Subscript "F" denotes root fairing.

Superscript "X" denotes vertical location as follows:

X = 1; tail in low position mounted to axle which passes through fuselage

X = 2; one-piece tail (having same planform as tail in low position) mounted to top of fuselage.

Additional superscript "Y" denotes incidence, degrees





IV. NOTATION AND SYMBOLS(cont'd)

X, Y
 h, F

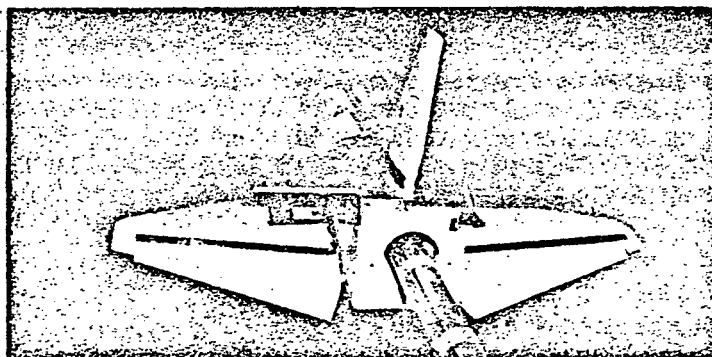
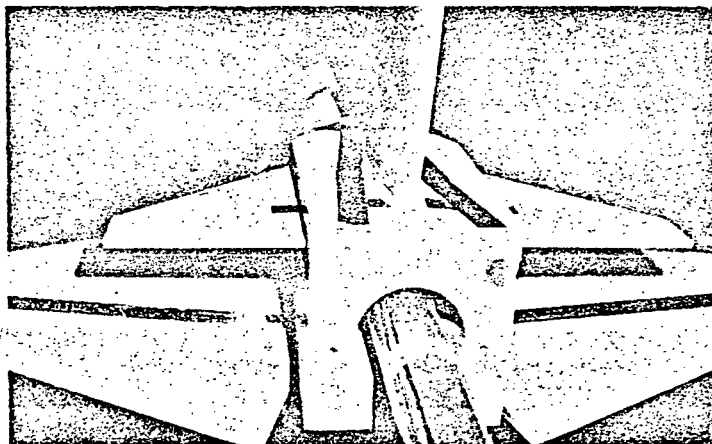
Large horizontal tail. Subscript "F" denotes root fairing.

Superscript "X" denotes vertical location as follows:

X = 1; tail in low position mounted to axle which passes through fuselage

X = 2; one-piece tail(having same planform as tail in low position) mounted to top of fuselage

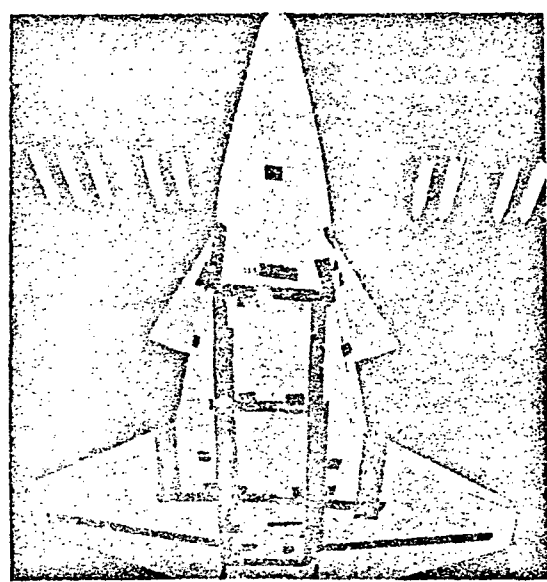
Additional superscript "Y" denotes incidence, degrees



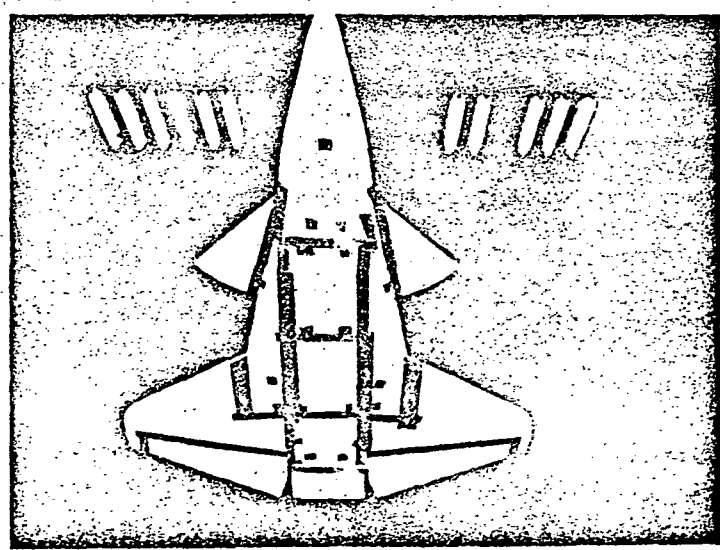


IV. NOMENCLATURE AND SYMBOLS (cont'd)

SC₁ Switch-blade canard located at leading edge of wing glove and having a sweep-back angle of 62 degrees.



SC₂ Switch-blade canard located at leading edge of wing glove and having a sweep-back angle of 45 degrees.





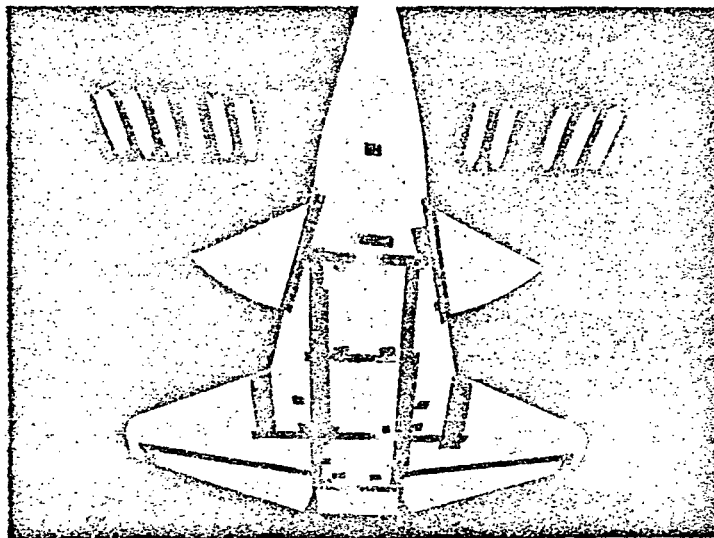
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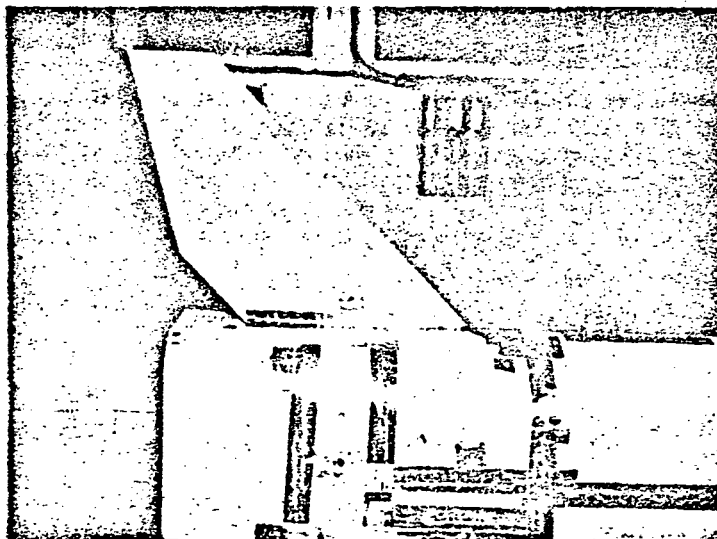
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IV. NOMENCLATURE AND SYMBOLS(cont'd)

SC_3 Switch-blade canard located at leading edge of wing glove and having a sweep-back angle of 35 degrees.



V_1 Vertical tail.

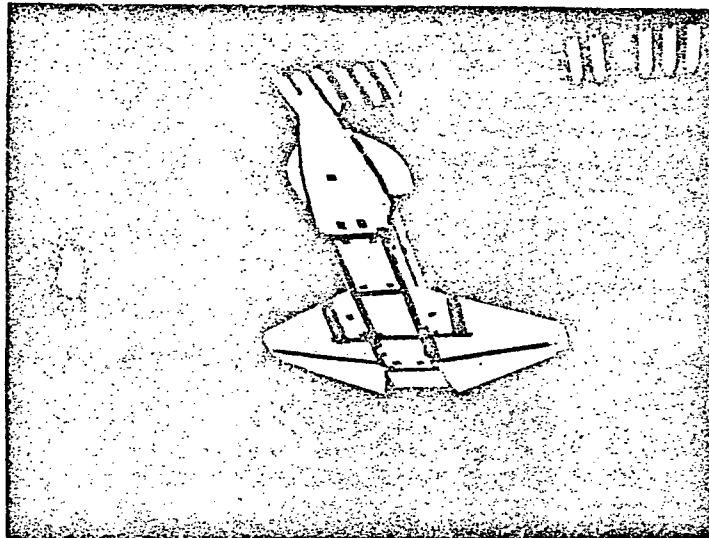




IV. NOMENCLATURE AND SYMBOLS(cont'd)

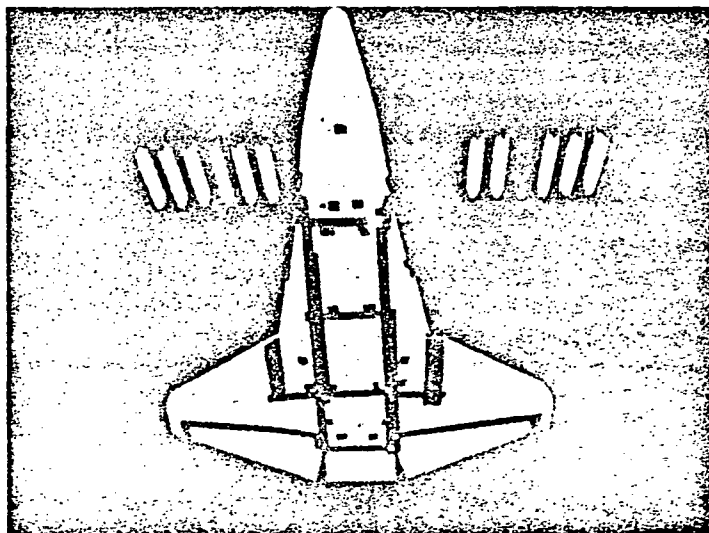
W_1

Basic wing with no glove.



W_2

Double-delta wing formed by W_1 and leading edge glove.

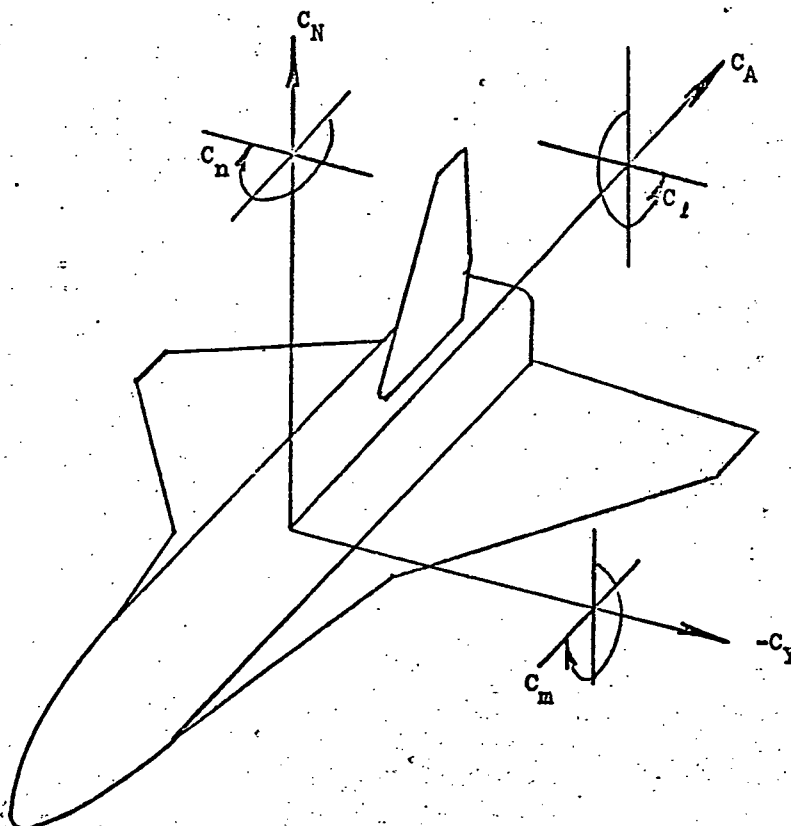




IV. NOMENCLATURE AND SYMBOLS (cont'd)

MODEL SIGN CONVENTION

FORCE DIAGRAM - BODY AXES



SURFACE DEFLECTIONS AND SIGN CONVENTIONS

The deflection of all movable surfaces is defined as the acute angle between adjacent model reference planes measured perpendicular to the hinge line. A positive deflection of a surface in a horizontal plane (model upright) places the trailing edge of the surface down. A positive deflection of a surface in the vertical plane of the model places the trailing edge of the surface to the left of the model centerline.



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V. MODEL DIMENSIONAL DATA

0.050 Scale Orbiter 089B

Body - B₁

Length, inches	7.000
Maximum Width, inches	10.200
Maximum Depth, inches	11.900

Gothic Canard -- GC₁, GC₂, GC₃

	<u>GC₁</u>	<u>GC₂</u>	<u>GC₃</u>
Area exposed per side, square inches	58.930	52.070	46.510
Semispan exposed, inches	4.222	3.850	3.610
Root chord exposed, inches	12.270	12.000	11.800

Horizontal Tail, Small (H₁)

(Exposed Data)

Area, square inches	88.992
Span(equivalent), inches	13.800
Aspect Ratio	2.140
Taper Ratio	0.303
Root chord, inches	9.900
Tip chord, inches	3.000
Hingeline, inches	63.720
Trailing edge, inches	67.250
Theoretical apex, inches	52.250

Horizontal Tail, Large(H₂)

(Exposed Data)

Area, square inches	162.720
Span(equivalent), inches	19.195
Aspect ratio	2.266
Taper ratio	0.277
Root chord, inches	13.270
Tip chord, inches	3.675
Hingeline, inches	63.720
Trailing edge, inches	68.400
Theoretical apex, inches	50.030



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V. MODEL DIMENSIONAL DATA (cont'd)

Switch-Blade Canards -- SC₁, SC₂, SC₃

	SC ₁	SC ₂	SC ₃
Area, square inches	30.340	60.670	78.520
Sweep-back angle at leading edge, degrees	62.0	45.0	35.0

Vertical Tail - V₁

Area, square inches	143.600
Span(exposed), inches	15.250
Root chord(exposed), inches	15.750
Tip chord(exposed), inches	4.750
Sweep-back of leading edge, degrees	45.000
Sweep-back of trailing edge, degrees	15.000

Wings - W₁ and W₂

	W ₁ (Basic - No Glove)	W ₂ (Double-Delta)
Area(planform), square inches	1231.200	1671.120
Span(equivalent), inches	55.790	55.790
Aspect Ratio	2.525	1.860
Taper Ratio	0.200	0.091
Aerodynamic Twist, degrees	0.000	0.000
Sweep-back Angle at Leading edge, degrees	35.000	79.000(Glove)
MAC, inches	25.355	43.975
Fuselage station of 0.25 MAC, inches	49.670	36.410
Break, inches	---	42.700
B.L. of Break, inches	---	9.950



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VI. REFERENCES

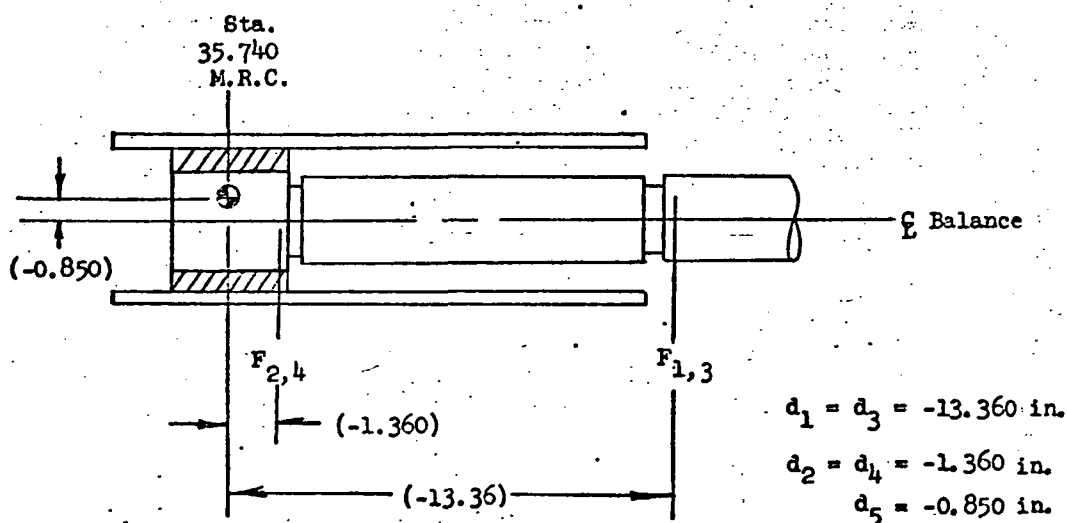
1. Chambliss, E. B., Pretest Memo for Test of Modified Shuttle Orbiter 039B in VSD Low Speed Wind Tunnel (15 by 20-foot Test Section), NASA-JSC Test Number MA-14, 24 April 1973.
2. Pope, Alan, Wind Tunnel Testing, Second Edition, John Wiley and Sons, New York, 1966.
3. Holbrook, J. W., Low Speed Wind Tunnel Handbook, LTV Publication No. AER-EOR-12995-B, May 1968.

VII. DATA REDUCTION

Raw counts from the VTB-6 internal strain-gage balance were converted to six-component force and moment data (lift, drag, pitching moment, side force, yawing moment, and rolling moment) and reduced to coefficients. The data were resolved about the model moment reference center and referenced to body and stability axes. Corrections were made for the effects of solid and wake blockage and static weight tares. The balance was installed such that it was rolled -90 degrees with respect to the model.

Data Reduction Factors

$$\begin{aligned} S_{REF} &= 1231.200 \text{ inches}^2 \\ \bar{c} &= 25.355 \text{ inches} \\ b &= 55.790 \text{ inches} \\ q &= 6.60 \text{ pounds per square foot} \end{aligned}$$

Balance "d" Distances



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VII. DATA REDUCTION(cont'd)

Blockage and Compressibility Correction

The blockage and compressibility corrections were combined into one expression and applied to q_{set} (piezometer differential pressure). This enabled the test dynamic pressure to be set to a predetermined value.

$$q_{set} = q \left(\frac{1}{5.20 \times q_u / q_{piez}} \right) (1 + M^2/4) \left(\frac{1}{1 + 2\epsilon_b} \right)$$

where:

q_{set} = piezometer differential pressure, inches of water

q = desired test dynamic pressure, pounds per square foot

q_u / q_{piez} = piezometer calibration factor

$1 + M^2/4$ = compressibility correction term where M = Mach Number

$\frac{1}{1 + 2\epsilon_b}$ = Solid and wake blockage correction

$$\epsilon_b = \frac{1}{4} \frac{\text{Model Frontal Area}}{\text{Test section cross-sectional area}}$$

Body to Stability Axes Transfer Equations ($\phi_{model} = 0$ Degrees)

$$C_{L_S} = C_{N_B} \cos \alpha \cos \phi - C_{Y_B} \cos \alpha \sin \phi - C_{A_B} \sin \alpha$$

$$C_{D_S} = C_{A_B} \cos \alpha + C_{N_B} \sin \alpha \cos \phi - C_{Y_B} \sin \alpha \sin \phi$$

$$C_{m_S} = C_{m_B} \cos \phi - b/\bar{c} C_{n_B} \sin \phi$$

$$C_{Y_S} = C_{Y_B} \cos \phi + C_{N_B} \sin \phi$$

$$C_{n_S} = C_{n_B} \cos \alpha \cos \phi + \bar{c}/b C_{m_B} \cos \alpha \sin \phi - C_{l_B} \sin \alpha$$

$$C_{l_S} = C_{l_B} \cos \alpha + C_{n_B} \sin \alpha \cos \phi + \bar{c}/b C_{m_B} \sin \alpha \sin \phi$$

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VIII. DATA PRESENTATION

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3	Tabulated Data	
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PAGE NO. 33

LOW SPEED WIND TUNNEL TEST 422 RUN INDEX
0.050 SCALE 0.093 MODEL 15 by 20 FOOT TEST SECTION
Orbiter

MODEL CONDITIONS			TUNNEL CONDITIONS				DATA RECORDED			CORRECTIONS		REMARKS	ENGR DATE
IN	OUT	CONFIGURATION	Q RANGE (PSF)	Q RANGE (IN-H ₂ O)	Q _{NET} (IN-H ₂ O)	TEMP (°F)	BARO PRESS (IN-HG)	INT. PRESS BALL	STATIC TARE				
1	2	V ₁	0/28	0	6.60 30.06	101	29.41	✓	1			Transition strips on model for all data runs	RV0 4/26
2	3		0	+6/-6		105	29.40						
3	4		4			107							
4	5		10										
5	6		16										
6	7		20										
7	8	δ_{-10}^0	0/28	0		87			1				
8	9	δ_{+10}^0				88			1				
9	10	δ_{-10}^0				86	29.42		9			Tape loose	
10	11	δ_{+10}^0				82	29.68		9			No trip strip on horizontal tail	
11	12					85						Replaced H.T. fairings with aluminum tape. Put Prit on H.R.	4/27
12	13		0	+6/-6		87							
13	14		4			87							
14	15		10			87							
15	16		16			94							
16	17		20			97							
17	18	δ_{-10}^0	0/28	0		91	29.67		9				
18	19	δ_{+10}^0				88							
19	20	δ_{-10}^0				87							
20	21	δ_{+10}^0				85							
21	22					85	29.66						
22	23					85	29.66						
23	24					85	29.64						
24	25					85	29.64						
25	26					84	29.62		24				
26	27	δ_{-10}^0				84	29.62		24				

*Indicates static tare taken

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PO BOX 5007 DALLAS TEXAS 75205

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LOW SPEED WIND TUNNEL TEST 422 RUN INDEX
0.050 SCALE 0.99 MODEL 15 by 20 FOOT TEST SECTION
Orbiter

RUN NO	MODEL CONDITIONS			TUNNEL CONDITIONS			DATA RECORDED			CORRECTIONS		REMARKS	ENGR DATE 1973
	CONFIGURATION	α RANGE (DEG)	ψ RANGE (DEG)	q (PSF) (IN-H ₂ O)	TEMP (°F)	BARO PRESS (IN-Hg)	INT. PRESS	STATIC TARE					
26	V ₂ V ₁ H ₂ O	0/28	0	6.60 20.86	86	29.60	✓	24					BHO 4/2
27		0	+6/-6		88								
33		4			90								
29		10			90								
30		16			80								
31		20			88								
32	H ₂ O	0/28	0		88			24					
33					88			24					
34					90	29.57		24					
35	H ₂ O				90	29.57		35					
36		0	+6/-6		93	29.34							4/30
37		10			93	29.34							
38		20			93	29.34							
39	H ₂ O	0			95	29.32							
40		10			95								
41		20			95								
42		0/28	0		95			12					
43	Horiz. Tail (P)				95			13					
44	Pairing On				90	29.33		14					
45		0	+6/-6		92								
46		10			92								
47		20			92								
48		0/28	0		92			14					
49					90								
50					94								

*Indicates static tare taken

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LOW SPEED WIND TUNNEL TEST 422 RUN INDEX
0.050 SCALE 0899 MODEL 15 by 20 FOOT TEST SECTION
Orbiter

*Indicates static taro taken

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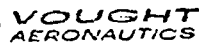
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PAGE NO. 36

LOW SPEED WIND TUNNEL TEST 422 RUN INDEX
0.050 SCALE 0.998 MODEL 15 by 20 FOOT TEST SECTION
Orbiter

RUN NO	MODEL CONDITIONS				TUNNEL CONDITIONS				DATA RECORDED		CORRECTIONS		REMARKS	ENGR DATE 1973
					CONFIGURATION	α RANGE (DEG)	ψ RANGE (DEG)	q (PSF) (IN-H ₂ O)	TEMP (°F)	BARO PRESS (IN-HG)	INTL PRESS BAL	STATIC TARE		
76	V ₁	P ₁	V ₁	Σ ₀		0	+6/-6	6.60 20.86	102	29.24	✓			JBY 5/1
77						10			104					
78						20			106					
79				Σ ₋₁₀		0/28	0		104			75		
80				Σ ₊₁₀				104 29.24	104			75		
81					αC ₂				102			81		
82				Σ ₋₁₀					102			81		
83				Σ ₀					103	29.24		81		
84						0	+6/-6		102					
85						10			103					
86						20			105					
87					αC ₃	0/28	0		101	29.30		87		
88					αC ₁				99	29.32		88		
89					αC ₂				90	29.34		89		
90						0	+6/-6		90					
91						10			92					
92						20			92					
93						0			96					
94						10			97					
95						20			99					
96						0/28	0		100			96		
97	W ₂	P ₁	V ₁	Σ ₀		0/28	0		80	29.65		97		RHO 5/2
98					αC ₁	16	+6/-6		80					
99				Σ ₊₁₀		0/28	0		94			99		
100				Σ ₋₁₀		0/28	0		94			99		

*Indicates static tare taken



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LOW SPEED WIND TUNNEL TEST 422 RUN INDEX
G.050 SCALE 0.003 MODEL 15 by 20 FOOT TEST SECTION
Orbiter

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VIII. DATA PRESENTATION(cont'd)TABULATED DATAColumn Heading Notation

ALPHA	Model geometric angle of attack, degrees
BETA	Model geometric sideslip angle, degrees
CA	Axial force coefficient, axial force/qS
CD	Drag coefficient, drag/qS
CL	Lift coefficient, lift/qS
CM	Pitching moment coefficient, pitching moment/qS \bar{c}
CN	Normal force coefficient, normal force/qS
CONF	Model configuration
CRM	Rolling moment coefficient, rolling moment/qSb
CY	Side force coefficient, side force/qS
CYM	Yawing moment coefficient, yawing moment/qSb
L/D	Ratio of lift to drag
MACH	Freestream Mach Number
PO	Ambient static pressure, pounds per square inch absolute
PT	Data point number
QPSF	Test dynamic pressure corrected for blockage and compressibility, pounds per square foot
RN/FT	Reynolds number per foot
TEMP	Test section temperature, degrees Fahrenheit
VEL-FPS	Test section freestream velocity based on corrected q, feet per second

REPORT NO. LSMT 422

PAGE NO. 039

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 1

TEMP = 101.
RN/FTX10-6 = 0.442645

VEL-FPS = 76.029

PO = 14.4450
MACH = 0.0680

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0256	0.0352	-0.0175	-0.0083	-0.0017	0.0030	0.7289
2	2.01	-0.00	0.1191	0.0468	-0.0602	-0.0031	-0.0016	0.0018	2.5439
3	4.03	-0.00	0.2252	0.0424	-0.1035	-0.0034	-0.0016	0.0019	5.2085
4	5.86	-0.00	0.3214	0.0505	-0.1459	0.0016	-0.0014	0.0007	6.3579
5	7.99	-0.00	0.4354	0.0815	-0.1994	0.0012	-0.0012	0.0008	5.3407
6	10.01	-0.00	0.5465	0.1149	-0.2485	-0.0018	-0.0017	0.0017	4.7544
7	12.01	-0.00	0.6503	0.1549	-0.2958	-0.0020	-0.0008	0.0021	4.1984
8	14.00	-0.00	0.7530	0.2022	-0.3445	-0.0024	-0.0011	0.0018	3.7226
9	16.03	-0.00	0.8602	0.2622	-0.4028	-0.0055	0.0011	0.0019	3.2795
10	18.01	-0.00	0.9974	0.3327	-0.4708	-0.0032	0.0018	0.0016	2.9974
11	20.10	-0.00	1.1155	0.4045	-0.5252	-0.0036	0.0029	0.0023	2.7572
12	22.03	-0.00	1.1312	0.4539	-0.5163	-0.0008	0.0000	0.0028	2.4920
13	23.97	-0.00	1.0867	0.4919	-0.4844	-0.0111	0.0064	0.0007	2.2092
14	25.97	-0.00	1.0170	0.5194	-0.4479	0.0029	0.0061	-0.0028	1.9577
15	28.01	-0.00	0.9947	0.5641	-0.4395	-0.0025	0.0025	0.0008	1.7632
16	0.00	0.00	0.0375	0.0353	-0.0230	-0.0138	-0.0016	0.0032	1.0613

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 2

TEMP = 105.

RN/FTX10-6= 0.438609

VEL-FPS= 76.306

PO= 14.4401

MACH= 0.0682

CONF= W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0310	0.0329	-0.0202	-0.0001	-0.0018	0.0006	0.9429
2	0.00	-6.00	0.0388	0.0281	-0.0296	0.0980	0.0029	-0.0237	1.3785
3	0.00	-4.00	0.0323	0.0305	-0.0231	0.0571	0.0016	-0.0148	1.0594
4	0.00	-2.00	0.0323	0.0305	-0.0202	0.0298	-0.0003	-0.0079	1.0581
5	0.00	0.00	0.0310	0.0329	-0.0211	-0.0029	-0.0021	0.0007	0.9408
6	-0.00	1.99	0.0351	0.0307	-0.0231	-0.0384	-0.0033	0.0094	1.1447
7	-0.00	3.99	0.0348	0.0284	-0.0258	-0.0685	-0.0055	0.0175	1.2249
8	-0.00	5.99	0.0432	0.0262	-0.0323	-0.0987	-0.0067	0.0244	1.6476
9	0.00	0.00	0.0342	0.0306	-0.0212	-0.0110	-0.0010	0.0020	1.1195

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REPORT NO. LSWT 422

PAGE NO. 011

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0

(PSF = 6.60

RUN NO. 3

TEMP = 105.

RN/FTX10-6= 0.438437

VEL-FPS= 76.336

PO= 14.4401

MACH= 0.0683

CONF= W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	4.03	-0.00	0.2248	0.0330	-0.1031	-0.0008	-0.0021	0.0003	6.8096
2	4.03	-6.00	0.2363	0.0290	-0.1115	0.0976	0.0039	-0.0251	8.1488
3	4.03	-4.00	0.2338	0.0335	-0.1072	0.0648	0.0023	-0.0168	6.9716
4	4.03	-2.00	0.2315	0.0334	-0.1041	0.0266	0.0009	-0.0079	6.9277
5	4.03	-0.00	0.2335	0.0336	-0.1047	-0.0089	-0.0015	0.0021	6.9417
6	4.02	1.99	0.2279	0.0333	-0.1047	-0.0336	-0.0036	0.0096	6.8417
7	4.02	3.99	0.2332	0.0314	-0.1087	-0.0665	-0.0056	0.0174	7.4167
	4.02	5.99	0.2373	0.0295	-0.1149	-0.0994	-0.0076	0.0251	8.0392
	4.03	-0.00	0.2290	0.0356	-0.1040	-0.0062	-0.0016	0.0015	6.4212

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PAGE NO. 012

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 4

TEMP = 107.

RN/FTX10-6= 0.436587

VEL-FPS= 76.449

PO= 14.4401
MACH= 0.0684

CONF= W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5495	0.1107	-0.2480	-0.0018	-0.0015	0.0005	4.9633
2	10.01	-6.00	0.5549	0.1067	-0.2550	0.0994	0.0044	-0.0259	5.1978
3	10.01	-4.00	0.5556	0.1092	-0.2509	0.0656	0.0019	-0.0177	5.0839
4	10.01	-2.00	0.5507	0.1108	-0.2491	0.0255	0.0002	-0.0078	4.9869
5	10.01	-0.00	0.5495	0.1107	-0.2480	-0.0017	-0.0012	0.0005	4.9634
6	10.01	1.99	0.5539	0.1092	-0.2501	-0.0374	-0.0037	0.0104	5.0721
7	10.01	3.99	0.5529	0.1067	-0.2522	-0.0703	-0.0055	0.0185	5.1792
8	10.01	5.99	0.5594	0.1056	-0.2586	-0.1005	-0.0077	0.0249	5.2946
9	10.01	-0.00	0.5526	0.1112	-0.2497	-0.0018	-0.0015	0.0005	4.9663

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PAGE NO. 043

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 5

TEMP = 107.

PO = 14.4401

RN/FTX10-6 = 0.436634

VEL-FPS = 76.441

MACH = 0.0683

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	16.03	-0.00	0.8725	0.2585	-0.4062	-0.0028	0.0005	0.0014	3.3748
2	16.03	-6.00	0.8687	0.2499	-0.4066	0.1064	-0.0004	-0.0251	3.4755
3	16.03	-4.00	0.8674	0.2544	-0.4035	0.0764	0.0000	-0.0180	3.4087
4	16.03	-2.00	0.8734	0.2563	-0.4048	0.0299	-0.0000	-0.0085	3.4079
5	16.03	-0.00	0.8767	0.2597	-0.4079	-0.0055	0.0009	0.0014	3.3751
6	16.03	1.99	0.8744	0.2591	-0.4081	-0.0384	0.0007	0.0110	3.3739
7	16.03	3.99	0.8795	0.2558	-0.4134	-0.0739	0.0022	0.0191	3.4372
8	16.03	5.99	0.8797	0.2536	-0.4183	-0.1097	0.0002	0.0272	3.4663
16.03	-0.00	0.8697	0.2528	-0.4034	-0.0056	0.0001	0.0022	3.4396	

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PAGE NO. 011

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE = 0
QPSF = 6.60

RUN NO. 6

TEMP = 107.
RN/FTX10-6 = 0.436650

VEL-FPS = 76.438

PO = 14.4401
MACH = 0.0683

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.1179	0.3979	-0.5235	-0.0117	0.0035	0.0018	2.8090
2	20.10	-6.00	1.1234	0.3899	-0.5320	0.1081	-0.0042	-0.0247	2.8811
3	20.10	-4.00	1.1216	0.3917	-0.5273	0.0754	-0.0038	-0.0174	2.8630
4	20.10	-2.00	1.1209	0.3965	-0.5260	0.0372	-0.0011	-0.0090	2.8268
5	20.10	-0.00	1.1159	0.3972	-0.5220	-0.0144	0.0041	0.0022	2.8042
6	20.09	1.99	1.1118	0.3957	-0.5188	-0.0471	0.0063	0.0106	2.8094
7	20.09	3.99	1.1121	0.3909	-0.5199	-0.0854	0.0078	0.0201	2.8446
8	20.09	5.99	1.1225	0.3924	-0.5313	-0.1183	0.0092	0.0265	2.8604
9	20.10	-0.00	1.1210	0.3991	-0.5247	-0.0090	0.0038	0.0016	2.8088

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PAGE NO. 015

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 7

TEMP = 87.

PO= 14.4401

RN/FTX10-6= 0.457119

VEL-FPS= 75.076

MACH= 0.0671

CONF= W2B1V1E(-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2259	0.0454	0.1646	-0.0093	-0.0003	0.0022	-4.9759
2	2.01	-0.00	-0.1253	0.0365	0.1311	-0.0067	-0.0009	0.0016	-3.4300
3	4.03	-0.00	-0.0198	0.0258	0.0887	-0.0071	-0.0008	0.0017	-0.7677
4	5.86	-0.00	0.0776	0.0308	0.0476	-0.0073	-0.0006	0.0023	2.5168
5	7.99	-0.00	0.1830	0.0442	0.0020	-0.0022	-0.0005	0.0005	4.1344
6	10.01	-0.00	0.3022	0.0676	-0.0515	-0.0053	-0.0008	0.0018	4.4657
7	12.01	-0.00	0.4135	0.0979	-0.1024	-0.0002	-0.0008	0.0018	4.2214
8	14.00	-0.00	0.5230	0.1359	-0.1532	-0.0115	-0.0000	0.0026	3.8466
9	16.03	-0.00	0.6376	0.1868	-0.2113	-0.0064	0.0012	0.0021	3.4129
10	18.01	-0.00	0.7564	0.2451	-0.2685	-0.0013	0.0014	0.0013	3.0858
11	20.10	-0.00	0.8856	0.3086	-0.3299	0.0008	0.0009	0.0009	2.8692
12	22.03	-0.00	0.9715	0.3702	-0.3679	-0.0047	0.0021	0.0017	2.6242
13	23.97	-0.00	0.9642	0.4131	-0.3553	-0.0017	0.0041	0.0000	2.3342
14	25.97	-0.00	0.9330	0.4488	-0.3392	0.0038	0.0030	-0.0022	2.0786
15	28.01	-0.00	0.8863	0.4814	-0.3218	0.0064	-0.0026	0.0006	1.8410
16	0.00	0.00	-0.2092	0.0336	0.1689	-0.0092	-0.0006	0.0021	-6.2227

REPORT NO. LSWT 422

PAGE NO. 016

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 8

TEMP = 88.
RN/FTX10-6= 0.456026

VEL-FPS= 75.150

PO= 14.4401
MACH= 0.0672

CONF= W2B1V1E(10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2767	0.0416	-0.2128	-0.0020	-0.0022	0.0015	6.6395
2	2.01	-0.00	0.3709	0.0620	-0.2552	0.0031	-0.0028	-0.0001	5.9754
3	4.03	-0.00	0.4795	0.0667	-0.3024	0.0000	-0.0021	0.0000	7.1788
4	5.86	-0.00	0.5781	0.0811	-0.3477	-0.0002	-0.0024	0.0002	7.1286
5	7.99	-0.00	0.6986	0.1274	-0.4068	0.0020	-0.0021	-0.0002	5.4814
6	10.01	-0.00	0.7942	0.1676	-0.4483	0.0017	-0.0020	0.0003	4.7584
7	12.01	-0.00	0.8773	0.2168	-0.4841	0.0015	-0.0011	0.0008	4.0452
8	14.00	-0.00	0.9746	0.2712	-0.5312	0.0067	-0.0000	-0.0001	3.5928
9	16.03	-0.00	1.0967	0.3442	-0.5997	0.0062	0.0009	-0.0003	3.1862
10	18.01	-0.00	1.2188	0.4187	-0.6583	0.0031	0.0019	0.0000	2.9103
11	20.10	-0.00	1.1949	0.6614	-0.6373	0.0040	0.0041	-0.0004	1.8065
12	22.03	-0.00	1.1999	0.5053	-0.6063	-0.0015	0.0033	0.0010	2.3744
13	23.97	-0.00	1.1645	0.5582	-0.5847	-0.0037	0.0077	-0.0010	2.0860
14	25.97	-0.00	1.1148	0.5917	-0.5575	0.0098	0.0013	-0.0041	1.8840
15	28.01	-0.00	1.0502	0.6210	-0.5220	-0.0059	0.0055	-0.0023	1.6910
16	0.00	0.00	0.2788	0.0510	-0.2161	-0.0047	-0.0024	0.0010	5.4577

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
QPSF = 8.60

RUN NO. 9

TEMP = 86.

PQ= 14.4499

RN/FTX10-6= 0.458315

VEL-FPS= 74.985

MACH= 0.0670

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0118	0.0304	-0.0079	0.0054	-0.0012	0.0003	0.3873
2	2.01	-0.00	0.1121	0.0347	-0.0537	-0.0003	-0.0004	0.0006	3.2226
3	4.03	-0.00	0.2200	0.0397	-0.1026	-0.0007	-0.0007	0.0007	5.5407
4	5.86	-0.00	0.3218	0.0459	-0.1476	0.0016	-0.0012	-0.0003	7.0099
5	7.99	-0.00	0.4405	0.0680	-0.2015	0.0039	-0.0008	0.0001	6.4715
6	10.01	-0.00	0.5465	0.1078	-0.2510	0.0008	-0.0013	0.0004	5.0678
7	12.01	-0.00	0.6449	0.1489	-0.2937	0.0033	-0.0008	0.0009	4.5301
8	14.00	-0.00	0.7433	0.1925	-0.3369	0.0004	0.0010	0.0011	3.8607
9	16.03	-0.00	0.8418	0.2495	-0.3851	0.0028	0.0025	0.0006	3.3739
10	18.01	-0.00	0.9610	0.3132	-0.4428	0.0105	0.0006	-0.0001	3.0677
11	20.10	-0.00	1.0668	0.3789	-0.4882	0.0076	0.0025	-0.0002	2.8154
12	22.03	-0.00	1.0955	0.4316	-0.4840	0.0023	0.0024	0.0010	2.5303
13	23.97	-0.00	1.0518	0.4632	-0.4509	0.0001	0.0069	-0.0017	2.2706
14	25.97	-0.00	0.9972	0.5044	-0.4254	0.0056	0.0001	-0.0005	1.9768
15	28.01	-0.00	0.9338	0.5286	-0.3926	0.0114	0.0014	-0.0028	1.7665
16	0.00	0.00	0.0215	0.0352	-0.0125	-0.0055	-0.0011	0.0013	0.6103

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 10

TEMP = 82.
RN/FTX10-6 = 0.464529

VEL-FPS = 74.403

PO = 14.5776
MACH = 0.0665

CONF = W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0204	0.0352	-0.0129	0.0053	-0.0019	-0.0001	0.5794
2	2.01	-0.00	0.1153	0.0325	-0.0562	0.0050	-0.0012	-0.0000	3.5417
3	4.03	-0.00	0.2244	0.0377	-0.1061	0.0019	-0.0011	0.0006	5.9524
4	5.86	-0.00	0.3276	0.0512	-0.1533	0.0043	-0.0011	0.0001	6.3919
5	7.99	-0.00	0.4436	0.0685	-0.2055	0.0066	-0.0009	-0.0004	6.4723
6	10.01	-0.00	0.5532	0.1066	-0.2551	0.0063	-0.0007	0.0001	5.1865
7	12.01	-0.00	0.6507	0.1526	-0.2989	0.0006	-0.0000	0.0013	4.2638
8	14.00	-0.00	0.7491	0.1915	-0.3400	0.0058	0.0006	-0.0000	3.9101
9	16.03	-0.00	0.8579	0.2517	-0.3951	0.0055	0.0021	0.0000	3.4074
10	18.01	-0.00	0.9668	0.3127	-0.4459	0.0077	-0.0002	0.0002	3.0915
11	20.10	-0.00	1.0751	0.3845	-0.4937	0.0047	0.0007	0.0005	2.7960
12	22.03	-0.00	1.1064	0.4360	-0.4929	-0.0004	0.0029	0.0003	2.5372
13	23.97	-0.00	1.0224	0.4551	-0.4357	-0.0051	0.0073	-0.0011	2.2463
14	25.97	-0.00	0.9944	0.5030	-0.4238	0.0058	0.0055	-0.0046	1.9748
15	28.01	-0.00	0.9568	0.5356	-0.4064	0.0088	0.0054	-0.0061	1.7862
16	0.00	0.00	0.0269	0.0282	-0.0141	-0.0055	-0.0014	0.0013	0.9539

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 11

TEMP = 85.
RN/FTX10-6= 0.461299

VEL-FPS= 74.606

PO= 14.5776
MACH= 0.0667

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0192	0.0422	-0.0135	-0.0000	-0.0011	0.0016	0.4560
2	0.00	-6.00	0.0303	0.0374	-0.0232	0.1008	0.0026	-0.0232	0.4043
3	0.00	-4.00	0.0243	0.0398	-0.0187	0.0708	0.0014	-0.0163	0.6250
4	0.00	-2.00	0.0194	0.0422	-0.0135	0.0272	-0.0005	-0.0062	0.4549
5	0.00	0.00	0.0214	0.0422	-0.0146	-0.0001	-0.0018	0.0016	0.5067
6	-0.00	1.99	0.0190	0.0423	-0.0158	-0.0329	-0.0033	0.0092	0.4487
7	-0.00	3.99	0.0219	0.0401	-0.0196	-0.0602	-0.0046	0.0161	0.5483
	-0.00	5.99	0.0293	0.0378	-0.0247	-0.0876	-0.0062	0.0235	0.7743
	0.00	0.00	0.0214	0.0422	-0.0146	-0.0028	-0.0021	0.0023	0.5062

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 12

TEMP = 87.
RN/FTX10-6 = 0.459156

VEL-FPS = 74.743

PD = 14.5776
MACH = 0.0668

CONF = W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	4.03	-0.00	0.2257	0.0354	-0.1047	-0.0035	-0.0010	0.0008	6.3691
2	4.03	-6.00	0.2356	0.0360	-0.1149	0.1030	0.0035	-0.0247	6.5423
3	4.03	-4.00	0.2342	0.0406	-0.1117	0.0729	0.0019	-0.0170	5.7635
4	4.03	-2.00	0.2279	0.0378	-0.1069	0.0538	-0.0003	-0.0108	6.0208
5	4.03	-0.00	0.2297	0.0404	-0.1066	0.0046	-0.0015	0.0000	5.6242
6	4.02	1.99	0.2307	0.0382	-0.1084	-0.0281	-0.0031	0.0083	6.0363
7	4.02	3.99	0.2304	0.0383	-0.1111	-0.0583	-0.0048	0.0154	6.0171
	4.02	5.99	0.2347	0.0340	-0.1158	-0.1075	-0.0061	0.0258	6.8937
	4.03	-0.00	0.2298	0.0381	-0.1069	-0.0035	-0.0017	0.0009	6.0328

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 13

TEMP = 85.
KN/FTX10-6 = 0.461283

VEL-FPS = 74.608

PO = 14.5776
MACH = 0.0667

CONF = W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5535	0.1114	-0.2554	-0.0018	-0.0015	0.0006	4.9644
2	10.01	-6.00	0.5610	0.1079	-0.2624	0.0966	0.0047	-0.0242	5.1989
3	10.01	-4.00	0.5573	0.1096	-0.2585	0.0583	0.0024	-0.0153	5.0812
4	10.01	-2.00	0.5559	0.1118	-0.2551	0.0364	0.0002	-0.0087	4.9711
5	10.01	-0.00	0.5556	0.1118	-0.2550	-0.0100	-0.0007	0.0029	4.9667
6	10.01	1.99	0.5522	0.1113	-0.2552	-0.0374	-0.0034	0.0098	4.9595
7	10.01	3.99	0.5533	0.1092	-0.2584	-0.0731	-0.0046	0.0178	5.0637
8	10.01	5.99	0.5577	0.1077	-0.2632	-0.1033	-0.0068	0.0259	5.1742
9	10.01	-0.00	0.5535	0.1114	-0.2544	-0.0046	-0.0017	0.0012	4.9646

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 14

TEMP = 94.
RN/FTX10-6 = 0.451753

VEL-FPS = 75.225

PO = 14.5776
MACH = 0.0673

CONF = W2B1V1E(0)H1(1.0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	16.03	-0.00	0.8500	0.2519	-0.3909	-0.0026	0.0023	0.0002	3.3740
2	16.03	-6.00	0.8522	0.2451	-0.3965	0.1093	0.0010	-0.0257	3.4769
3	16.03	-4.00	0.8495	0.2467	-0.3926	0.0793	0.0013	-0.0191	3.4423
4	16.03	-2.00	0.8491	0.2516	-0.3914	0.0328	0.0005	-0.0088	3.3745
5	16.03	-0.00	0.8531	0.2528	-0.3912	-0.0027	0.0010	0.0006	3.3743
6	16.03	1.99	0.8497	0.2519	-0.3918	-0.0382	0.0007	0.0098	3.3727
7	16.03	3.99	0.8511	0.2500	-0.3950	-0.0684	-0.0003	0.0175	3.4044
8	16.03	5.99	0.8575	0.2495	-0.4028	-0.1096	-0.0007	0.0263	3.4359
9	16.03	-0.00	0.8510	0.2522	-0.3910	0.0000	0.0011	-0.0000	3.3741

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PAGE NO. 053

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 15

TEMP = 97.

RN/FTX10-6= 0.448607

VEL-FPS= 75.436

PO= 14.5776

MACH= 0.0674

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.0722	0.3859	-0.4936	-0.0088	0.0017	0.0018	2.7779
2	20.10	-6.00	1.0796	0.3786	-0.5046	0.1192	-0.0059	-0.0251	2.8514
3	20.10	-4.00	1.0788	0.3808	-0.4999	0.0729	-0.0030	-0.0165	2.8326
4	20.10	-2.00	1.0702	0.3826	-0.4924	0.0402	-0.0015	-0.0090	2.7967
5	20.10	-0.00	1.0770	0.3852	-0.4966	0.0047	0.0008	-0.0000	2.7956
6	20.09	1.99	1.0776	0.3830	-0.4960	-0.0388	0.0054	0.0095	2.8135
7	20.09	3.99	1.0723	0.3811	-0.4946	-0.0879	0.0078	0.0190	2.8133
8	20.09	5.99	1.0798	0.3815	-0.5025	-0.1181	0.0079	0.0258	2.8301
9	20.10	-0.00	1.0740	0.3841	-0.4945	-0.0061	0.0021	0.0010	2.7959

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 16

TEMP = 91.
RN/FTX10-6 = 0.454766

VEL-FPS = 75.041

PO = 14.5727
MACH = 0.0671

CONF = W2B1V1E(10)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2204	0.0289	0.1661	-0.0011	-0.0018	0.0008	-7.6017
2	2.01	-0.00	-0.1187	0.0274	0.1225	-0.0069	-0.0012	0.0016	-4.3227
3	4.03	-0.00	-0.0170	0.0261	0.0768	-0.0072	-0.0015	0.0018	-0.6534
4	5.86	-0.00	0.0824	0.0315	0.0318	-0.0021	-0.0012	0.0006	2.6159
5	7.99	-0.00	0.1979	0.0418	-0.0180	0.0029	-0.0014	0.0000	4.7324
6	10.01	-0.00	0.3137	0.0674	-0.0691	-0.0055	-0.0008	0.0019	4.6482
7	12.01	-0.00	0.4162	0.0986	-0.1148	-0.0031	-0.0009	0.0014	4.2180
	14.00	-0.00	0.5237	0.1362	-0.1622	-0.0035	-0.0011	0.0015	3.8441
	16.03	-0.00	0.6232	0.1778	-0.2077	0.0044	-0.0002	-0.0000	3.5053
10	18.01	-0.00	0.7437	0.2385	-0.2650	0.0066	-0.0013	-0.0002	3.1180
11	20.10	-0.00	0.8662	0.3015	-0.3232	0.0090	0.0001	-0.0008	2.8729
12	22.03	-0.00	0.9437	0.3613	-0.3556	0.0007	0.0018	0.0011	2.6114
13	23.97	-0.00	0.9329	0.3938	-0.3328	-0.0015	0.0046	0.0003	2.3688
14	25.97	-0.00	0.8802	0.4227	-0.3031	0.0041	0.0020	-0.0011	2.0820
15	28.01	-0.00	0.8186	0.4423	-0.2735	0.0125	0.0004	-0.0032	1.8509
16	0.00	0.00	-0.2085	0.0383	0.1612	-0.0066	-0.0017	0.0016	-5.4298

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9

QPSF = 6.60

RUN NO. 17

TEMP = 88.

RN/FTX10-6= 0.457985

VEL-FPS= 74.828

PO= 14.5727

MACH= 0.0669

CONF= W261V1E(+10)H1(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2469	0.0555	-0.1896	-0.0017	-0.0024	0.0014	4.4483
2	2.01	-0.00	0.3529	0.0636	-0.2385	-0.0021	-0.0014	0.0005	5.5441
3	4.03	-0.00	0.4588	0.0722	-0.2876	0.0002	-0.0018	0.0000	6.3510
4	5.86	-0.00	0.5620	0.0911	-0.3381	-0.0001	-0.0017	0.0001	6.1678
5	7.99	-0.00	0.6889	0.1283	-0.3973	0.0048	-0.0018	-0.0004	5.3673
6	10.01	-0.00	0.7823	0.1677	-0.4377	0.0073	-0.0017	0.0006	4.8629
7	12.01	-0.00	0.8630	0.2233	-0.4727	-0.0010	-0.0007	0.0007	3.8647
8	14.00	-0.00	0.9535	0.2730	-0.5122	0.0070	0.0010	0.0000	3.4921
9	16.03	-0.00	1.0592	0.3404	-0.5662	0.0093	0.0020	-0.0002	3.1114
10	18.01	-0.00	1.1653	0.4108	-0.6182	0.0116	-0.0008	0.0005	2.8362
11	20.10	-0.00	1.2133	0.4611	-0.6219	0.0011	0.0059	0.0000	2.6306
12	22.03	-0.00	1.1634	0.5054	-0.5753	0.0041	0.0019	0.0013	2.3018
13	23.97	-0.00	1.1277	0.5415	-0.5518	-0.0062	0.0079	0.0000	2.0323
14	25.97	-0.00	1.0522	0.5738	-0.5125	0.0022	0.0036	-0.0020	1.8337
15	28.01	-0.00	1.0162	0.6080	-0.4938	0.0131	-0.0013	-0.0017	1.6714
16	0.00	0.00	0.2534	0.0555	-0.1924	-0.0017	-0.0024	0.0009	4.5635

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9

QPSF = 6.60

RUN NO. 18

TEMP = 87.

RN/FTX10-6= 0.459050

VEL-FPS= 74.760

PO= 14.5727

MACH= 0.0668

CONF= W2B1V1E(10)H1(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2902	0.0582	-0.2312	0.0032	-0.0022	-0.0002	4.9845
2	2.01	-0.00	0.3895	0.0699	-0.2774	0.0029	-0.0022	-0.0000	5.5671
3	4.03	-0.00	0.5004	0.0826	-0.3298	0.0025	-0.0028	0.0001	6.0571
4	5.86	-0.00	0.6025	0.1003	-0.3773	-0.0033	-0.0023	0.0003	6.0030
5	7.99	-0.00	0.7243	0.1336	-0.4354	0.0044	-0.0022	-0.0003	5.4175
6	10.01	-0.00	0.8198	0.1795	-0.4771	0.0015	-0.0009	0.0007	4.5664
7	12.01	-0.00	0.8999	0.2315	-0.5124	0.0013	-0.0002	0.0001	3.8368
8	14.00	-0.00	0.9956	0.2864	-0.5585	0.0010	0.0008	0.0004	3.4760
9	16.03	-0.00	1.0992	0.3572	-0.6136	0.0034	0.0009	0.0003	3.0758
10	18.01	-0.00	1.2200	0.4341	-0.6737	0.0056	0.0001	-0.0000	2.8102
11	20.10	-0.00	1.3014	0.5017	-0.7012	0.0028	-0.0000	0.0001	2.5940
12	22.03	-0.00	1.2476	0.5377	-0.6515	-0.0020	0.0019	0.0011	2.3201
13	23.97	-0.00	1.1719	0.5642	-0.5990	-0.0067	0.0072	-0.0007	2.0769
14	25.97	-0.00	1.0883	0.5891	-0.5475	-0.0061	0.0071	-0.0004	1.8473
15	28.01	-0.00	1.0342	0.6124	-0.5100	0.0156	-0.0027	-0.0029	1.6886
16	0.00	0.00	0.2966	0.0559	-0.2349	-0.0049	-0.0027	0.0011	5.3030

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PAGE NO. 057

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9

QPSF = 6.60

RUN NO. 19

TEMP = 85.

RN/FTX10-6= 0.461225

VEL-FPS= 74.618

PO= 14.5727

MACH= 0.0667

CONF= W2B1V1E(-10)H1(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.1790	0.0433	0.1294	-0.0014	-0.0007	0.0004	-4.1292
2	2.01	-0.00	-0.0812	0.0431	0.0861	-0.0018	-0.0013	0.0005	-1.8820
3	4.03	-0.00	0.0263	0.0436	0.0380	0.0032	-0.0021	-0.0005	0.6042
4	5.86	-0.00	0.1220	0.0500	-0.0044	-0.0052	-0.0012	0.0002	2.4395
5	7.99	-0.00	0.2293	0.0536	-0.0501	0.0053	-0.0015	-0.0005	4.2754
6	10.01	-0.00	0.3474	0.0832	-0.1034	-0.0004	-0.0014	0.0008	4.1723
7	12.01	-0.00	0.4583	0.1199	-0.1545	0.0019	-0.0012	0.0002	3.8205
8	14.00	-0.00	0.5666	0.1569	-0.2019	-0.0011	-0.0013	0.0010	3.6193
9	16.03	-0.00	0.6729	0.2046	-0.2551	0.0094	-0.0004	-0.0006	3.2876
10	18.01	-0.00	0.7986	0.2617	-0.3158	0.0089	-0.0002	-0.0011	3.0508
11	20.10	-0.00	0.9273	0.3293	-0.3783	0.0113	0.0007	-0.0010	2.8155
12	22.03	-0.00	1.0129	0.3975	-0.4144	0.0083	0.0008	-0.0009	2.5482
13	23.97	-0.00	1.0175	0.4372	-0.4035	0.0086	0.0031	-0.0015	2.3271
14	25.97	-0.00	0.9684	0.4663	-0.3669	0.0036	0.0033	-0.0023	2.0767
15	28.01	-0.00	0.8974	0.4819	-0.3210	0.0041	0.0039	-0.0034	1.8620
16	0.00	0.00	-0.1704	0.0457	0.1254	-0.0070	-0.0016	0.0011	-3.7255

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PAGE NO. 058

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 20

TEMP = 85.
RN/FTX10-6= 0.461119

VEL-FPS= 74.635

PO= 14.5678
MACH= 0.0667

CONF= W2B1V1E(0)H1(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0561	0.0355	-0.0497	-0.0004	-0.0012	0.0012	1.5739
2	2.01	-0.00	0.1562	0.0414	-0.0950	-0.0062	-0.0013	0.0009	3.7724
3	4.03	-0.00	0.2641	0.0455	-0.1433	-0.0011	-0.0014	0.0003	5.7992
4	5.86	-0.00	0.3652	0.0578	-0.1899	-0.0015	-0.0014	-0.0000	6.3149
5	7.99	-0.00	0.4830	0.0768	-0.2417	0.0008	-0.0018	-0.0000	6.2599
6	10.01	-0.00	0.5897	0.1182	-0.2931	0.0032	-0.0013	0.0004	4.5876
7	12.01	-0.00	0.6883	0.1633	-0.3370	0.0056	-0.0010	0.0003	4.2139
	14.00	-0.00	0.7909	0.2072	-0.3818	0.0054	0.0002	-0.0004	3.8166
	16.03	-0.00	0.9135	0.2731	-0.4473	0.0076	0.0011	-0.0007	3.3447
10	18.01	-0.00	1.0315	0.3367	-0.5053	0.0072	0.0010	-0.0001	3.0628
11	20.10	-0.00	1.1407	0.4090	-0.5521	0.0070	0.0021	-0.0011	2.7585
12	22.03	-0.00	1.1752	0.4696	-0.5575	0.0043	0.0018	-0.0004	2.5025
13	23.97	-0.00	1.1419	0.5014	-0.5267	0.0074	0.0024	-0.0015	2.2771
14	25.97	-0.00	1.0459	0.5207	-0.4673	0.0026	0.0032	-0.0025	2.0084
15	28.01	-0.00	0.9720	0.5412	-0.4177	0.0167	0.0014	-0.0048	1.7960
16	0.00	0.00	0.0637	0.0379	-0.0526	-0.0032	-0.0018	0.0013	1.6795

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PAGE NO. 059

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 21

TEMP = 85.
RN/FTX10-6= 0.461070

VEL-FPS= 74.643

PD= 14.5678
MACH= 0.0667

CONF= W2B1V1E(0)H1(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.0217	0.0395	0.0302	-0.0023	-0.0017	0.0011	-0.5492
2	2.01	-0.00	0.0762	0.0401	-0.0148	0.0000	-0.0014	0.0005	1.8966
3	4.03	-0.00	0.1830	0.0414	-0.0626	-0.0030	-0.0013	0.0007	4.4188
4	5.86	-0.00	0.2835	0.0486	-0.1076	0.0047	-0.0015	-0.0009	5.8278
5	7.99	-0.00	0.3953	0.0636	-0.1576	0.0016	-0.0014	0.0002	6.2078
6	10.01	-0.00	0.5086	0.1054	-0.2091	0.0013	-0.0011	0.0008	4.8212
7	12.01	-0.00	0.6008	0.1439	-0.2495	0.0010	-0.0006	0.0014	4.1744
8	14.00	-0.00	0.6951	0.1849	-0.2914	0.0035	-0.0005	0.0002	3.7590
9	16.03	-0.00	0.7944	0.2427	-0.3384	0.0087	0.0008	0.0002	3.2728
10	18.01	-0.00	0.9101	0.3060	-0.3950	0.0083	0.0012	0.0001	2.9733
11	20.10	-0.00	1.0240	0.3703	-0.4437	0.0026	0.0021	0.0011	2.7553
12	22.03	-0.00	1.0413	0.4192	-0.4326	0.0028	0.0028	0.0007	2.4858
13	23.97	-0.00	0.9617	0.4378	-0.3791	-0.0045	0.0073	0.0004	2.1965
14	25.97	-0.00	0.9371	0.4772	-0.3744	0.0034	0.0027	-0.0013	1.9635
15	28.01	-0.00	0.9095	0.5155	-0.3700	0.0224	-0.0033	-0.0030	1.7644
16	0.00	0.00	-0.0174	0.0418	0.0274	-0.0024	-0.0014	0.0005	-0.4156

REPORT NO. LSWT 422

PAGE NO. 060

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 22

TEMP = 85.
RN/FTX10-6= 0.460989

VEL-FPS= 74.656

PD= 14.5579
MACH= 0.0668

CONF= W2B1V1E(-10)H1(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2528	0.0426	0.2026	-0.0007	-0.0010	0.0007	-5.9236
2	2.01	-0.00	-0.1517	0.0423	0.1585	-0.0037	-0.0005	0.0009	-3.5830
3	4.03	-0.00	-0.0441	0.0403	0.1095	-0.0041	-0.0008	0.0005	-1.0940
4	5.86	-0.00	0.0527	0.0445	0.0665	-0.0071	-0.0007	0.0011	1.1834
5	7.99	-0.00	0.1635	0.0460	0.0201	-0.0020	-0.0009	0.0000	3.5485
6	10.01	-0.00	0.2760	0.0699	-0.0298	0.0003	-0.0008	0.0005	3.9487
7	12.01	-0.00	0.3827	0.1055	-0.0774	-0.0027	-0.0005	0.0012	3.6205
8	14.00	-0.00	0.4870	0.1363	-0.1220	-0.0030	-0.0002	0.0023	3.5722
9	16.03	-0.00	0.5887	0.1845	-0.1704	0.0076	0.0006	-0.0005	3.1902
10	18.01	-0.00	0.6992	0.2359	-0.2206	0.0044	0.0000	0.0004	2.9638
11	20.10	-0.00	0.8248	0.2958	-0.2775	0.0041	0.0020	-0.0008	2.7878
12	22.03	-0.00	0.9037	0.3573	-0.3092	0.0012	0.0023	-0.0004	2.5290
13	23.97	-0.00	0.8794	0.3848	-0.2780	-0.0010	0.0020	0.0002	2.2850
14	25.97	-0.00	0.8267	0.4118	-0.2553	0.0045	-0.0004	-0.0018	2.0072
15	28.01	-0.00	0.8138	0.4554	-0.2572	0.0046	0.0030	-0.0031	1.7569
16	0.00	0.00	-0.2495	0.0450	0.2019	-0.0089	-0.0012	0.0010	-5.5405

REPORT NO. LSMT 422

PAGE NO. 001

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 9
GPSF = 6.60

RUN NO. 23

TEMP = 85.
RN/FTX10-6= 0.460939

VEL-FPS= 74.656

PO= 14.5579
MACH= 0.0668

CONF= W2B1V1E(10)H1(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2080	0.0715	-0.1517	-0.0013	-0.0023	0.0008	2.9057
2	2.01	-0.00	0.3091	0.0757	-0.1984	0.0010	-0.0020	0.0003	4.0798
3	4.03	-0.00	0.4178	0.0854	-0.2469	0.0006	-0.0020	-0.0000	4.8926
4	5.86	-0.00	0.5269	0.1059	-0.2998	0.0002	-0.0020	-0.0004	4.9720
5	7.99	-0.00	0.6424	0.1332	-0.3546	0.0052	-0.0022	-0.0010	4.8213
6	10.01	-0.00	0.7444	0.1773	-0.3996	0.0023	-0.0018	0.0007	4.1970
7	12.01	-0.00	0.8173	0.2251	-0.4305	0.0049	-0.0005	0.0004	3.6305
8	14.00	-0.00	0.9015	0.2717	-0.4649	0.0074	0.0000	-0.0003	3.3180
9	16.03	-0.00	1.0091	0.3426	-0.5246	0.0097	0.0002	-0.0009	2.9447
10	18.01	-0.00	1.1125	0.4129	-0.5717	0.0066	-0.0017	0.0004	2.6959
11	20.10	-0.00	1.1783	0.4654	-0.5865	0.0068	0.0024	0.0000	2.5313
12	22.03	-0.00	1.1075	0.4948	-0.5197	-0.0006	0.0037	0.0018	2.2379
13	23.97	-0.00	1.0476	0.5206	-0.4845	-0.0028	0.0059	-0.0004	2.0120
14	25.97	-0.00	0.9949	0.5506	-0.4656	0.0133	-0.0022	-0.0038	1.8067
15	28.01	-0.00	0.9925	0.5979	-0.4761	0.0133	-0.0010	-0.0019	1.6601
16	0.00	0.00	0.2112	0.0715	-0.1520	-0.0040	-0.0023	0.0004	2.9526

REPORT NO. LSWT 422

PAGE NO. 002

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 24

QPSF = 6.60

RUN NO. 24

TEMP = 84.

RN/FTX10-6= 0.461918

VEL-FPS= 74.611

PO= 14.5481

MACH= 0.0667

CONF= W2B1V1E(10)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2268	-0.0577	-0.1714	-0.0070	-0.0017	0.0016	3.9320
2	2.01	-0.00	0.3283	0.0649	-0.2204	-0.0019	-0.0017	-0.0004	5.0549
3	4.03	-0.00	0.4448	0.0758	-0.2746	-0.0050	-0.0016	0.0012	5.2652
4	5.86	-0.00	0.5503	0.0921	-0.3247	-0.0027	-0.0019	0.0007	5.9722
5	7.99	-0.00	0.6715	0.1305	-0.3840	-0.0004	-0.0013	0.0001	5.1445
6	10.01	-0.00	0.7679	0.1699	-0.4265	-0.0061	-0.0013	0.0015	4.5195
7	12.01	-0.00	0.8479	0.2175	-0.4588	-0.0063	-0.0001	0.0018	3.8971
8	14.00	-0.00	0.9327	0.2725	-0.4959	-0.0092	0.0017	0.0015	3.4219
9	16.03	-0.00	1.0320	0.3397	-0.5427	-0.0040	0.0020	0.0001	3.0379
10	18.01	-0.00	1.1288	0.4036	-0.5853	0.0038	0.0003	-0.0003	2.7967
11	20.10	-0.00	1.1887	0.4644	-0.5959	-0.0068	0.0048	0.0012	2.5596
12	22.03	-0.00	1.1391	0.5004	-0.5554	-0.0251	0.0135	0.0027	2.2762
13	23.97	-0.00	1.1211	0.5488	-0.5472	0.0017	0.0008	-0.0017	2.0426
14	25.97	-0.00	1.0223	0.5643	-0.4921	0.0022	0.0013	-0.0015	1.8117
15	28.01	-0.00	0.9943	0.5988	-0.4800	-0.0030	0.0022	-0.0006	1.6602
16	0.00	0.00	0.2376	0.0624	-0.1765	-0.0070	-0.0013	0.0016	3.8073

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PAGE NO. 063

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 25

TEMP = 84.

PO= 14.5481

RN/FTX10-6= 0.461951

VEL-FPS= 74.606

MACH= 0.0667

CONF= W2B1V1E(-10)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2118	0.0337	0.1607	-0.0066	-0.0007	0.0015	-6.2817
2	2.01	-0.00	-0.1095	0.0349	0.1123	-0.0069	-0.0005	0.0016	-3.1377
3	4.03	-0.00	-0.0013	0.0297	0.0644	-0.0046	-0.0009	0.0011	-0.0444
4	5.86	-0.00	0.0961	0.0330	0.0205	-0.0050	-0.0018	0.0013	2.9105
5	7.99	-0.00	0.2133	0.0465	-0.0314	-0.0080	-0.0009	0.0019	4.5884
6	10.01	-0.00	0.3278	0.0725	-0.0834	-0.0084	-0.0005	0.0019	4.5219
7	12.01	-0.00	0.4354	0.1005	-0.1296	-0.0087	-0.0003	0.0020	4.3320
8	14.00	-0.00	0.5365	0.1419	-0.1731	-0.0063	-0.0007	0.0015	3.7798
9	16.03	-0.00	0.6324	0.1853	-0.2105	-0.0064	0.0007	0.0017	3.4123
10	18.01	-0.00	0.7407	0.2375	-0.2596	-0.0040	0.0014	0.0014	3.1139
11	20.10	-0.00	0.8660	0.3063	-0.3146	-0.0043	0.0020	0.0006	2.8270
12	22.03	-0.00	0.9394	0.3620	-0.3395	-0.0044	0.0034	0.0011	2.5952
13	23.97	-0.00	0.9286	0.4020	-0.3233	-0.0068	0.0046	-0.0006	2.3096
14	25.97	-0.00	0.8882	0.4292	-0.3006	-0.0040	0.0026	-0.0017	2.0693
15	28.01	-0.00	0.8295	0.4480	-0.2697	-0.0036	0.0032	-0.0029	1.8515
16	0.00	0.00	-0.2021	0.0337	0.1562	-0.0094	-0.0010	0.0011	-5.9864

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PAGE NO. 064

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 24

GPSF = 6.60

RUN NO. 26

TEMP = 86.

RN/FTX10-6= 0.459622

VEL-FPS= 74.772

PO= 14.5383

MACH= 0.0669

CONF= W261V1E(0)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0065	0.0351	-0.0011	-0.0054	-0.0014	0.0012	0.1877
2	2.01	-0.00	0.1056	0.0358	-0.0495	-0.0030	-0.0010	0.0007	2.8635
3	4.03	-0.00	0.2212	0.0397	-0.1008	-0.0007	-0.0014	0.0002	5.5610
4	5.85	-0.00	0.3194	0.0480	-0.1465	-0.0092	-0.0005	0.0010	6.6510
5	7.99	-0.00	0.4398	0.0727	-0.2017	-0.0096	-0.0007	0.0017	6.0474
6	10.01	-0.00	0.5497	0.1084	-0.2512	-0.0045	-0.0011	0.0011	5.0707
7	12.01	-0.00	0.6485	0.1425	-0.2932	-0.0102	-0.0003	0.0023	4.5497
8	14.00	-0.00	0.7303	0.1916	-0.3285	-0.0050	-0.0009	0.0012	3.8104
9	16.03	-0.00	0.8348	0.2474	-0.3757	-0.0025	0.0012	0.0000	3.3740
10	18.01	-0.00	0.9426	0.3120	-0.4243	-0.0083	0.0017	0.0011	3.0206
11	20.10	-0.00	1.0427	0.3748	-0.4604	-0.0029	0.0028	-0.0000	2.7418
12	22.03	-0.00	1.0555	0.4226	-0.4523	-0.0162	0.0078	0.0016	2.4972
13	23.97	-0.00	1.0442	0.4700	-0.4439	-0.0134	0.0065	0.0001	2.2215
14	25.97	-0.00	0.9888	0.5028	-0.4146	-0.0023	0.0034	-0.0032	1.9664
15	28.01	-0.00	0.9209	0.5190	-0.3783	0.0006	0.0003	-0.0024	1.7744
16	0.00	0.00	0.0141	0.0351	-0.0054	-0.0109	-0.0010	0.0014	0.4009

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PAGE NO. 065

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
OPSF = 6.60

RUN NO. 27

TEMP = 88.
RN/FTX10-6= 0.457458

VEL-FPS= 74.914

PD= 14.5383
MACH= 0.0670

CONF= W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0108	0.0421	-0.0040	-0.0054	-0.0010	0.0018	0.2580
2	0.00	-6.00	0.0186	0.0373	-0.0135	0.1037	0.0032	-0.0239	0.4996
3	0.00	-4.00	0.0154	0.0420	-0.0082	0.0682	0.0014	-0.0162	0.3673
4	0.00	-2.00	0.0131	0.0421	-0.0071	0.0273	0.0007	-0.0073	0.3115
5	0.00	0.00	0.0130	0.0421	-0.0042	0.0000	-0.0014	0.0005	0.3106
6	-0.00	1.99	0.0138	0.0422	-0.0079	-0.0382	-0.0029	0.0094	0.3275
7	-0.00	3.99	0.0179	0.0400	-0.0104	-0.0656	-0.0048	0.0173	0.4492
8	-0.00	5.99	0.0197	0.0377	-0.0160	-0.0984	-0.0057	0.0244	0.5231
9	0.00	0.00	0.0130	0.0421	-0.0051	-0.0054	-0.0017	0.0018	0.3088

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PAGE NO. 066

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 28

TEMP = 90.

PO= 14.5383

RN/FTX10-6= 0.455358

VEL-FPS= 75.048

MACH= 0.0671

CONF= W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	4.03	-0.00	0.2219	0.0445	-0.1020	0.0019	-0.0014	0.0001	4.9842
2	4.03	-6.00	0.2344	0.0405	-0.1113	0.1030	0.0039	-0.0252	5.7759
3	4.03	-4.00	0.2267	0.0425	-0.1076	0.0675	0.0026	-0.0169	5.3735
4	4.03	-2.00	0.2242	0.0446	-0.1036	0.0320	0.0004	-0.0085	5.0229
5	4.03	-0.00	0.2251	0.0447	-0.1031	-0.0034	-0.0006	0.0013	5.0297
6	4.02	1.99	0.2281	0.0450	-0.1052	-0.0363	-0.0029	0.0091	5.0631
7	4.02	3.99	0.2301	0.0429	-0.1098	-0.0637	-0.0054	0.0162	5.3561
8	4.02	5.99	0.2343	0.0410	-0.1151	-0.0939	-0.0067	0.0238	5.7108
9	4.03	-0.00	0.2229	0.0446	-0.1034	-0.0089	-0.0009	0.0010	4.9951

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PAGE NO. 007

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 29

TEMP = 90.

PO = 14.5383

RN/FTX10-6 = -0.455358

VEL-FPS = 75.048

MACH = 0.0671

CONF = W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5499	0.1132	-0.2524	-0.0045	-0.0014	-0.0012	4.8574
2	10.01	-6.00	0.5568	0.1071	-0.2607	0.1049	0.0057	-0.0252	5.1975
3	10.01	-4.00	0.5553	0.1092	-0.2560	0.0748	0.0031	-0.0177	5.0823
4	10.01	-2.00	0.5527	0.1112	-0.2540	0.0473	0.0004	-0.0107	4.9690
5	10.01	-0.00	0.5509	0.1134	-0.2534	-0.0100	-0.0004	0.0023	4.8561
6	10.01	1.99	0.5543	0.1117	-0.2558	-0.0320	-0.0035	0.0097	4.9622
7	10.01	3.99	0.5533	0.1092	-0.2584	-0.0704	-0.0054	0.0174	5.0637
8	10.01	5.99	0.5581	0.1054	-0.2632	-0.1033	-0.0070	0.0246	5.2910
9	10.01	-0.00	0.5524	0.1113	-0.2534	-0.0100	-0.0005	0.0017	4.9638

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PAGE NO. 068

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 30

TEMP = 88.
RN/FTX10-6 = 0.457474

VEL-FPS = 74.912

PD = 14.5383
MACH = 0.0670

CONF = W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	16.03	-0.00	0.8341	0.2496	-0.3767	0.0001	0.0010	0.0005	3.3409
2	16.03	-6.00	0.8306	0.2436	-0.3778	0.1068	0.0016	-0.0252	3.4093
3	16.03	-4.00	0.8351	0.2473	-0.3791	0.0767	0.0020	-0.0181	3.3757
4	16.03	-2.00	0.8313	0.2487	-0.3738	0.0412	0.0016	-0.0095	3.3420
5	16.03	-0.00	0.8356	0.2525	-0.3775	0.0110	0.0004	-0.0007	3.3091
6	16.03	1.99	0.8390	0.2511	-0.3803	-0.0381	0.0014	0.0108	3.3403
7	16.03	3.99	0.8363	0.2460	-0.3813	-0.0628	0.0002	0.0176	3.3717
8	16.03	5.99	0.8448	0.2482	-0.3897	-0.1040	-0.0019	0.0271	3.4034
9	16.03	-0.00	0.8394	0.2511	-0.3776	-0.0025	0.0009	0.0001	3.3417

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 31

TEMP = 88.

RN/FTX10-6= 0.457474

VEL-FPS= 74.912

PO= 14.5383

MACH= 0.0670

CONF= W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.0398	0.3762	-0.4617	-0.0030	0.0017	0.0009	2.7633
2	20.10	-6.00	1.0514	0.3730	-0.4760	0.1196	-0.0038	-0.0254	2.8188
3	20.10	-4.00	1.0425	0.3722	-0.4688	0.0869	-0.0025	-0.0184	2.8008
4	20.10	-2.00	1.0467	0.3763	-0.4683	0.0432	-0.0007	-0.0095	2.7815
5	20.10	-0.00	1.0397	0.3762	-0.4627	-0.0003	0.0023	0.0017	2.7633
6	20.09	1.99	1.0463	0.3762	-0.4672	-0.0331	0.0043	0.0097	2.7803
7	20.09	3.99	1.0529	0.3763	-0.4731	-0.0768	0.0063	0.0191	2.7579
8	20.09	5.99	1.0512	0.3733	-0.4770	-0.1152	0.0066	0.0261	2.8157
9	20.10	-0.00	1.0448	0.3781	-0.4649	-0.0003	0.0013	0.0010	2.7630

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 24

QPSF = 6.60

RUN NO. 32

TEMP = 88.

RN/FTX10-6= 0.457539

VEL-FPS= 74.901

PO= 14.5383

MACH= 0.0670

CONF= W2B1V1E(0)H2F(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0783	0.0427	-0.0712	-0.0033	-0.0011	0.0013	1.8301
2	2.01	-0.00	0.1781	0.0494	-0.1183	-0.0037	-0.0010	0.0008	3.6028
3	4.03	-0.00	0.2919	0.0571	-0.1705	0.0013	-0.0011	0.0002	5.1093
4	5.86	-0.00	0.3933	0.0727	-0.2209	0.0009	-0.0014	-0.0001	5.4652
5	7.99	-0.00	0.5106	0.0998	-0.2736	-0.0021	-0.0010	0.0000	5.1121
6	10.01	-0.00	0.6163	0.1374	-0.3220	-0.0025	-0.0008	0.0006	4.4831
7	12.01	-0.00	0.7183	0.1748	-0.3647	-0.0054	-0.0001	0.0017	4.1091
8	14.00	-0.00	0.8193	0.2242	-0.4120	0.0023	-0.0000	-0.0001	3.6534
9	16.03	-0.00	0.9250	0.2863	-0.4623	-0.0033	0.0014	0.0007	3.2305
10	18.01	-0.00	1.0465	0.3491	-0.5190	-0.0010	0.0016	0.0000	2.9970
11	20.10	-0.00	1.1585	0.4257	-0.5667	0.0014	0.0033	-0.0002	2.7216
12	22.03	-0.00	1.1815	0.4772	-0.5602	-0.0038	0.0016	0.0005	2.4757
13	23.97	-0.00	1.1460	0.5161	-0.5311	-0.0087	0.0082	-0.0007	2.2204
14	25.97	-0.00	1.0547	0.5328	-0.4699	0.0053	0.0026	-0.0030	1.9793
15	28.01	-0.00	1.0103	0.5564	-0.4360	0.0028	0.0006	-0.0026	1.8155
16	0.00	0.00	0.0815	0.0404	-0.0732	-0.0006	-0.0012	0.0001	2.0150

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PAGE NO. 071

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 33

TEMP = 88.

PO= 14.5383

RN/FTX10-6= 0.457409

VEL-FPS= 74.922

MACH= 0.0670

CONF= W2B1V1E(-10)H2F(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.1496	0.0483	0.0977	0.0009	-0.0004	-0.0003	-3.0958
2	2.01	-0.00	-0.0532	0.0491	0.0525	0.0006	-0.0007	0.0004	-1.0827
3	4.03	-0.00	0.0584	0.0509	0.0032	-0.0024	-0.0003	0.0000	1.1490
4	5.86	-0.00	0.1557	0.0609	-0.0417	-0.0055	-0.0004	0.0013	2.5575
5	7.99	-0.00	0.2637	0.0730	-0.0892	0.0022	-0.0010	0.0001	3.6120
6	10.01	-0.00	0.3819	0.0992	-0.1434	-0.0089	0.0000	0.0009	3.8476
7	12.01	-0.00	0.4907	0.1343	-0.1896	-0.0038	-0.0005	0.0014	3.6518
8	14.00	-0.00	0.5959	0.1742	-0.2364	-0.0041	0.0002	0.0013	3.4203
9	16.03	-0.00	0.7027	0.2233	-0.2860	-0.0017	0.0007	0.0005	3.1470
10	18.01	-0.00	0.8235	0.2774	-0.3420	0.0087	0.0005	-0.0008	2.9677
11	20.10	-0.00	0.9552	0.3522	-0.4041	-0.0025	0.0024	0.0000	2.7114
12	22.03	-0.00	1.0289	0.4117	-0.4320	-0.0080	0.0046	0.0003	2.4990
13	23.97	-0.00	1.0429	0.4590	-0.4240	0.0003	0.0034	-0.0013	2.2722
14	25.97	-0.00	0.9723	0.4708	-0.3692	0.0036	0.0035	-0.0042	2.0650
15	28.01	-0.00	0.9032	0.4850	-0.3215	-0.0013	0.0043	-0.0035	1.8621
16	0.00	0.00	-0.1431	0.0507	0.0962	-0.0072	-0.0010	0.0011	-2.8228

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 34

TEMP = 90.
RN/FTX10-6= 0.455124

VEL-FPS= 75.087

PO= 14.5236
MACH= 0.0671

CONF= W2B1V1E(10)H2F(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2987	0.0606	-0.2389	0.0004	-0.0021	0.0004	4.9252
2	2.01	-0.00	0.3999	0.0727	-0.2885	0.0028	-0.0015	-0.0000	5.4954
3	4.03	-0.00	0.5150	0.0861	-0.3431	0.0051	-0.0019	-0.0011	5.9816
4	5.86	-0.00	0.6174	0.1091	-0.3951	0.0020	-0.0021	0.0002	5.8584
5	7.99	-0.00	0.7393	0.1477	-0.4525	0.0016	-0.0014	-0.0002	5.0026
6	10.01	-0.00	0.8337	0.1916	-0.4950	0.0040	-0.0010	0.0001	4.3493
7	12.01	-0.00	0.9201	0.2384	-0.5309	0.0011	-0.0002	0.0001	3.8596
8	14.00	-0.00	1.0181	0.3018	-0.5794	0.0008	0.0012	0.0003	3.3726
9	16.03	-0.00	1.1209	0.3709	-0.6297	-0.0021	0.0023	0.0001	3.0215
10	18.01	-0.00	1.2228	0.4325	-0.6747	0.0002	0.0015	-0.0002	2.8267
11	20.10	-0.00	1.2768	0.6919	-0.7003	-0.0019	0.0059	0.0003	1.8451
12	22.03	-0.00	1.2560	0.5461	-0.6548	-0.0098	0.0094	0.0005	2.2997
13	23.97	-0.00	1.2025	0.5831	-0.6153	-0.0041	0.0061	-0.0014	2.0521
14	25.97	-0.00	1.0980	0.5991	-0.5501	0.0017	0.0009	-0.0030	1.8327
15	28.01	-0.00	1.0371	0.6165	-0.5075	-0.0031	0.0042	-0.0017	1.6820
16	0.00	0.00	0.3041	0.0606	-0.2421	-0.0022	-0.0018	0.0005	5.0111

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PAGE NO. 073

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 35
QPSF = 6.60

RUN NO. 35

TEMP = 90.
RN/FTX10-6= 0.455140

VEL-FPS= 75.084

PD= 14.5236
MACH= 0.0671

CONF= W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0265	0.0353	-0.0222	0.0025	-0.0012	0.0005	0.7528
2	2.01	-0.00	0.1278	0.0355	-0.0703	-0.0005	-0.0014	0.0007	3.6008
3	4.03	-0.00	0.2380	0.0388	-0.1202	-0.0009	-0.0014	0.0008	6.1347
4	5.86	-0.00	0.3407	0.0551	-0.1731	0.0013	-0.0011	0.0002	6.1770
5	7.99	-0.00	0.4605	0.0758	-0.2271	0.0009	-0.0017	0.0004	6.0697
6	10.01	-0.00	0.5776	0.1136	-0.2818	0.0005	-0.0009	0.0004	5.0337
7	12.01	-0.00	0.6789	0.1565	-0.3285	0.0002	-0.0007	0.0010	4.5377
8	14.00	-0.00	0.7726	0.2002	-0.3718	-0.0000	-0.0011	0.0006	3.8592
9	16.03	-0.00	0.8798	0.2583	-0.4230	-0.0003	0.0011	0.0000	3.4052
10	18.01	-0.00	0.9909	0.3233	-0.4760	0.0075	0.0013	-0.0002	3.0648
11	20.10	-0.00	1.1057	0.3960	-0.5260	0.0045	0.0026	-0.0000	2.7921
12	22.03	-0.00	1.1340	0.4374	-0.5225	-0.0007	0.0034	0.0007	2.5923
13	23.97	-0.00	1.1234	0.4956	-0.5146	-0.0004	0.0059	-0.0023	2.2653
14	25.97	-0.00	1.0504	0.5256	-0.4776	0.0105	0.0001	-0.0024	1.9982
15	28.01	-0.00	0.9912	0.5543	-0.4410	-0.0051	0.0078	-0.0020	1.7381
16	0.00	0.00	0.0330	0.0376	-0.0247	-0.0002	-0.0015	0.0006	0.8760

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 36

TEMP = 93.
RN/FTX10-6= 0.450414

VEL-FPS= 75.554

PO= 14.4106
MACH= 0.0676

CONF= W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0276	0.0400	-0.0229	-0.0029	-0.0011	0.0017	0.6908
2	0.00	-6.00	0.0366	0.0351	-0.0306	0.1008	0.0039	-0.0238	1.0403
3	0.00	-4.00	0.0289	0.0375	-0.0254	0.0653	0.0021	-0.0156	0.7713
4	0.00	-2.00	0.0277	0.0399	-0.0239	0.0407	0.0002	-0.0077	0.6959
5	0.00	0.00	0.0266	0.0399	-0.0215	-0.0001	-0.0011	0.0006	0.6657
6	-0.00	1.99	0.0284	0.0377	-0.0243	-0.0439	-0.0032	0.0107	0.7543
7	-0.00	3.99	0.0292	0.0355	-0.0284	-0.0740	-0.0044	0.0187	0.8230
	-0.00	5.99	0.0355	0.0332	-0.0320	-0.1041	-0.0066	0.0262	1.0673
	0.00	0.00	0.0309	0.0400	-0.0232	-0.0083	-0.0010	0.0019	0.7728

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 37

TEMP = 93.
RN/FTX10-6 = 0.450366

VEL-FPS = 75.562

PO = 14.4106
MACH = 0.0676

CONF= W2B1V1E(10)H2F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5761	0.1157	-0.2818	-0.0048	-0.0014	0.0012	4.9772
2	10.01	-6.00	0.5852	0.1100	-0.2889	0.1073	0.0044	-0.0266	5.3180
3	10.01	-4.00	0.5811	0.1141	-0.2855	0.0744	0.0025	-0.0191	5.0923
4	10.01	-2.00	0.5799	0.1139	-0.2830	0.0388	0.0004	-0.0093	5.0389
5	10.01	-0.00	0.5750	0.1155	-0.2808	-0.0076	-0.0017	0.0014	4.9762
6	10.01	1.99	0.5763	0.1134	-0.2807	-0.0377	-0.0039	0.0111	5.0790
7	10.01	3.99	0.5817	0.1121	-0.2866	-0.0679	-0.0062	0.0186	5.1857
8	10.01	5.99	0.5827	0.1101	-0.2916	-0.1118	-0.0074	0.0275	5.2915
9	10.01	-0.00	0.5783	0.1161	-0.2815	-0.0103	-0.0013	0.0014	4.9793

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
GPSF = 6.60

RUN NO. 38

TEMP = 93.
RN/FTX10-6= 0.450350

VEL-FPS= 75.564

PO= 14.4106
MACH= 0.0676

CONF= W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.1034	0.4051	-0.5278	0.0045	0.0018	-0.0003	2.7233
2	20.10	-6.00	1.1143	0.4015	-0.5368	0.1164	-0.0014	-0.0267	2.7749
3	20.10	-4.00	1.1046	0.4030	-0.5288	0.0755	-0.0009	-0.0185	2.7409
4	20.10	-2.00	1.1077	0.4067	-0.5282	0.0427	-0.0008	-0.0099	2.7237
5	20.10	-0.00	1.1075	0.4066	-0.5281	-0.0009	0.0020	0.0009	2.7233
6	20.09	1.99	1.1012	0.4044	-0.5247	-0.0501	0.0039	0.0117	2.7228
7	20.09	3.99	1.0997	0.4014	-0.5258	-0.0856	0.0060	0.0208	2.7392
8	20.09	5.99	1.1111	0.4008	-0.5334	-0.1213	0.0059	0.0279	2.7722
9	20.10	-0.00	1.1126	0.4085	-0.5308	-0.0092	0.0016	0.0013	2.7230

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 39

TEMP = 95.
RN/FTX10-6= 0.448155

VEL-FPS= 75.723

PU= 14.4008
MACH= 0.0677

CONF= W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
2	0.00	-6.00	0.0398	0.0352	-0.0332	0.1062	0.0025	-0.0245	1.1302
3	0.00	-4.00	0.0343	0.0375	-0.0285	0.0762	0.0010	-0.0164	0.9142
4	0.00	-2.00	0.0310	0.0399	-0.0256	0.0352	-0.0000	-0.0075	0.7759
5	0.00	0.00	0.0308	0.0400	-0.0260	0.0052	-0.0019	0.0004	0.7761
6	-0.00	1.99	0.0327	0.0401	-0.0275	-0.0330	-0.0033	0.0092	0.8172
7	-0.00	3.99	0.0336	0.0378	-0.0293	-0.0685	-0.0048	0.0175	0.8882
8	-0.00	5.99	0.0408	0.0356	-0.0367	-0.1014	-0.0063	0.0256	1.1452
9	0.00	0.00	0.0340	0.0400	-0.0276	-0.0057	-0.0017	0.0013	0.8495

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PAGE NO. 078

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 40

TEMP = 95.
RN/FTX10-6= 0.448155

VEL-FPS= 75.723

PN= 14.4008
MACH= 0.0677

CONF= W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5623	0.1084	-0.2689	-0.0020	-0.0016	0.0006	5.1857
2	10.01	-6.00	0.5678	0.1044	-0.2739	0.1074	0.0042	-0.0261	5.4358
3	10.01	-4.00	0.5641	0.1062	-0.2709	0.0664	0.0025	-0.0161	5.3057
4	10.01	-2.00	0.5636	0.1085	-0.2690	0.0308	0.0001	-0.0079	5.1901
5	10.01	-0.00	0.5634	0.1086	-0.2685	0.0006	-0.0014	-0.0000	5.1872
6	10.01	1.99	0.5657	0.1067	-0.2699	-0.0349	-0.0038	0.0104	5.3091
7	10.01	3.99	0.5664	0.1070	-0.2736	-0.0787	-0.0054	0.0204	5.2938
8	10.01	5.99	0.5690	0.1027	-0.2782	-0.0871	-0.0085	0.0257	5.5363
9	10.01	-0.00	0.5634	0.1086	-0.2676	-0.0074	-0.0013	0.0018	5.1870

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PAGE NO. 079

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 41

TEMP = 95.
RN/FTX10-6 = 0.448219

VEL-FPS = 75.712

PO = 14.4008
MACH = 0.0677

CONF = W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.1122	0.4034	-0.5287	-0.0036	0.0025	0.0013	2.7570
2	20.10	-6.00	1.1108	0.3952	-0.5358	0.1273	-0.0034	-0.0268	2.8101
3	20.10	-4.00	1.1130	0.3986	-0.5328	0.0836	-0.0021	-0.0163	2.7921
4	20.10	-2.00	1.1112	0.4004	-0.5285	0.0481	-0.0013	-0.0099	2.7747
5	20.10	-0.00	1.1130	0.4012	-0.5300	0.0044	-0.0010	0.0005	2.7740
6	20.09	1.99	1.1087	0.3997	-0.5282	-0.0419	0.0046	0.0111	2.7738
7	20.09	3.99	1.1112	0.3982	-0.5319	-0.0829	0.0065	0.0194	2.7903
8	20.09	5.99	1.1077	0.3945	-0.5319	-0.1130	0.0071	0.0266	2.8076
9	20.10	-0.00	1.1110	0.4004	-0.5280	0.0045	0.0024	-0.0005	2.7743

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 42
QPSF = 6.60

RUN NO. 42

TEMP = 95.
RN/FTX10-6= 0.448123

VEL-FPS= 75.728

PO= 14.4008
MACH= 0.0677

CONF= W2B1V1E(0)HIF(2,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0329	0.0377	-0.0270	-0.0084	-0.0010	0.0014	0.8737
2	2.01	-0.00	0.1278	0.0354	-0.0698	-0.0005	-0.0008	0.0001	3.6025
3	4.03	-0.00	0.2337	0.0384	-0.1185	-0.0036	-0.0014	0.0003	6.0717
4	5.86	-0.00	0.3406	0.0480	-0.1677	-0.0067	-0.0010	0.0005	7.0289
5	7.99	-0.00	0.4567	0.0729	-0.2220	-0.0017	-0.0010	0.0004	6.2628
6	10.01	-0.00	0.6178	0.1470	-0.3010	-0.0049	-0.0010	0.0006	4.2025
7	12.01	-0.00	0.6685	0.1494	-0.3172	-0.0051	-0.0013	0.0013	4.4740
8	14.00	-0.00	0.7625	0.1975	-0.3608	-0.0053	-0.0001	0.0016	3.8592
9	15.03	-0.00	0.8713	0.2534	-0.4152	-0.0057	-0.0001	0.0012	3.4378
10	18.01	-0.00	0.9986	0.3209	-0.4758	0.0020	-0.0001	0.0004	3.1118
11	20.10	-0.00	1.1154	0.3946	-0.5293	-0.0091	0.0036	0.0011	2.8255
12	22.03	-0.00	1.1123	0.4310	-0.5097	-0.0061	0.0032	0.0010	2.5602
13	23.97	-0.00	1.1067	0.4830	-0.5013	-0.0005	0.0025	-0.0007	2.2911
14	25.97	-0.00	1.0292	0.5126	-0.4631	-0.0002	0.0004	0.0001	2.0076
15	28.01	-0.00	0.9810	0.5462	-0.4320	-0.0079	0.0043	-0.0030	1.7960
16	0.00	0.00	0.0340	0.0353	-0.0270	-0.0057	-0.0014	0.0013	0.9627

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PAGE NO. 051

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 43
QPSF = 6.60

RUN NO. 43

TEMP = 95.
RN/FTX10-6 = 0.448171

VEL-FPS = 75.720

PO = 14.4008
MACH = 0.0677

CONF = W2B1V1E(0)F

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0297	0.0330	-0.0247	-0.0029	-0.0011	0.0007	0.9016
2	2.01	-0.00	0.1249	0.0306	-0.0638	-0.0059	-0.0010	0.0014	4.0763
3	4.03	-0.00	0.2267	0.0355	-0.1076	0.0046	-0.0016	-0.0004	6.3811
4	5.86	-0.00	0.3293	0.0467	-0.1519	-0.0011	-0.0010	0.0003	7.0487
5	7.99	-0.00	0.4462	0.0665	-0.2037	-0.0015	-0.0013	0.0004	6.7061
6	10.01	-0.00	0.5576	0.1074	-0.2545	-0.0045	-0.0011	0.0011	5.1894
7	12.01	-0.00	0.6537	0.1484	-0.3004	0.0005	-0.0008	0.0009	4.4026
8	14.06	-0.00	0.7568	0.1911	-0.3465	0.0029	-0.0009	0.0004	3.9588
9	16.03	-0.00	0.8668	0.2544	-0.4075	0.0025	0.0009	0.0005	3.4062
10	19.05	-0.00	0.9814	0.2333	-0.4466	0.0075	-0.0000	-0.0004	4.2061
11	20.10	-0.00	1.1026	0.3923	-0.5200	-0.0008	0.0029	0.0005	2.8103
12	22.03	-0.00	1.1296	0.4431	-0.5175	-0.0033	0.0056	0.0005	2.5459
13	23.97	-0.00	1.1002	0.4851	-0.4913	-0.0030	0.0057	-0.0003	2.2673
14	26.99	-0.00	1.0106	0.4245	-0.4206	0.0162	-0.0032	-0.0022	2.3805
15	28.01	-0.00	0.9967	0.5492	-0.4363	0.0190	-0.0033	-0.0022	1.8146
16	0.00	0.00	0.0362	0.0330	-0.0275	-0.0029	-0.0011	0.0007	1.0973

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 44

TEMP = 90.
RN/FTX10-6= 0.453471

VEL-FPS= 75.361

PD= 14.4057
MACH= 0.0674

CONF= W2B1V1E(0)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0278	0.0329	-0.0180	-0.0001	-0.0022	0.0016	0.0025
2	2.01	-0.00	0.1295	0.0400	-0.0542	-0.0030	-0.0010	-0.0012	3.0027
3	4.03	-0.00	0.2365	0.0477	-0.0919	-0.0060	-0.0008	0.0014	4.0007
4	5.86	-0.00	0.3312	0.0512	-0.1232	0.0019	-0.0014	0.0001	6.0000
5	7.99	-0.00	0.4540	0.0790	-0.1655	-0.0010	-0.0015	0.0003	5.0000
6	10.01	-0.00	0.5615	0.1170	-0.2047	-0.0039	-0.0010	0.0009	4.0004
7	12.01	-0.00	0.6702	0.1632	-0.2423	0.0040	-0.0015	-0.0002	4.0002
8	14.00	-0.00	0.7684	0.2077	-0.2770	0.0011	-0.0012	0.0009	3.0004
9	16.03	-0.00	0.8680	0.2659	-0.3123	0.0010	-0.0004	0.0007	3.0004
10	18.01	-0.00	0.9582	0.3259	-0.3432	-0.0018	0.0000	0.0018	2.0004
11	20.10	-0.00	1.0464	0.3951	-0.3767	0.0007	-0.0002	0.0007	2.0003
12	22.03	-0.00	1.1221	0.4665	-0.4057	-0.0047	0.0031	0.0007	2.0009
13	23.97	-0.00	1.2193	0.5476	-0.4471	-0.0076	0.0044	0.0007	2.0007
14	25.97	-0.00	1.2653	0.6244	-0.4596	-0.0022	0.0018	0.0004	2.0001
15	28.01	-0.00	1.2675	0.6929	-0.4507	0.0139	-0.0061	0.0005	1.0002
16	0.00	0.00	0.0398	0.0329	-0.0208	-0.0083	-0.0010	0.0013	1.0009

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 45

TEMP = 92.

PO = 14.4057

RN/FTX10-6 = 0.451332

VEL-FPS = 75.506

MACH = 0.0675

CONF = W2B1V1E(0)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0344	0.0352	-0.0181	-0.0028	-0.0014	0.0006	0.9774
2	0.00	-6.00	0.0411	0.0304	-0.0271	0.0981	0.0040	-0.0232	1.3509
3	0.00	-4.00	0.0379	0.0328	-0.0212	0.0599	0.0022	-0.0154	1.1582
4	0.00	-2.00	0.0356	0.0352	-0.0202	0.0353	0.0002	-0.0076	1.0126
5	0.00	0.00	0.0332	0.0353	-0.0204	-0.0110	-0.0016	0.0025	0.9410
6	-0.00	1.99	0.0341	0.0330	-0.0208	-0.0357	-0.0036	0.0093	1.0346
7	-0.00	3.99	0.0370	0.0331	-0.0261	-0.0685	-0.0048	0.0174	1.1186
8	-0.00	5.99	0.0433	0.0308	-0.0297	-0.0986	-0.0067	0.0244	1.4037
9	0.00	0.00	0.0321	0.0352	-0.0194	-0.0083	-0.0017	0.0019	0.9118

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 46

TEMP = 92.
RN/FTX10-6= 0.451348

VEL-FPS= 75.503

PO= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5694	0.1161	-0.2066	-0.0066	-0.0011	0.0016	4.9044
2	10.01	-6.00	0.5770	0.1125	-0.2137	0.0974	0.0073	-0.0254	5.1267
3	10.01	-4.00	0.5734	0.1142	-0.2092	0.0645	0.0044	-0.0161	5.0174
4	10.01	-2.00	0.5707	0.1162	-0.2063	0.0289	0.0018	-0.0072	4.9058
5	10.01	-0.00	0.5715	0.1165	-0.2077	-0.0121	-0.0010	0.0018	4.9060
6	10.01	1.99	0.5670	0.1157	-0.2073	-0.0341	-0.0050	0.0099	4.8979
7	10.01	3.99	0.5703	0.1141	-0.2116	-0.0698	-0.0076	0.0193	4.9982
8	10.01	5.99	0.5715	0.1120	-0.2138	-0.0973	-0.0104	0.0262	5.1015
9	10.01	-0.00	0.5705	0.1163	-0.2071	-0.0012	-0.0018	0.0004	4.9057

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VSD LOW SPEED TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
PSF = 6.60

RUN NO. 47

TEMP = 92.
FIX10-6 = 0.451332

VEL-FPS = 75.506

PO = 14.4057
MACH = 0.0675

CONF = M2B1V1E(0)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.0452	0.3921	-0.3764	0.0007	0.0005	0.0010	2.6651
2	20.10	-6.00	1.0537	0.3877	-0.3881	0.0934	-0.0043	-0.0199	2.7171
3	20.10	-4.00	1.0509	0.3892	-0.3828	0.0661	-0.0045	-0.0148	2.6997
4	20.10	-2.00	1.0443	0.3918	-0.3759	0.0252	-0.0029	-0.0054	2.6652
5	20.10	-0.00	1.0452	0.3921	-0.3760	0.0035	0.0011	0.0007	2.6652
6	20.09	1.99	1.0418	0.3921	-0.3775	-0.0293	0.0022	0.0083	2.6644
7	20.09	3.99	1.0373	0.3921	-0.3770	-0.0674	0.0061	0.0163	2.6809
8	20.09	5.99	1.0376	0.3921	-0.3853	-0.0840	0.0047	0.0215	2.6973
9	20.10	-0.00	1.0462	0.3925	-0.3765	0.0062	0.0011	0.0000	2.6653

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 48

TEMP = 92.
RN/FTX10-6 = 0.451348

VEL-FPS = 75.503

PO = 14.4057
MACH = 0.0675

CONF = W2B1V1E(10)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2759	0.0556	-0.2071	-0.0046	-0.0024	0.0016	4.9562
2	2.01	-0.00	0.3723	0.0690	-0.2424	-0.0021	-0.0020	-0.0000	5.3957
3	4.03	-0.00	0.4772	0.0828	-0.2814	-0.0023	-0.0020	0.0000	5.7618
4	5.86	-0.00	0.5828	0.1024	-0.3199	0.0001	-0.0020	-0.0004	5.6897
5	7.99	-0.00	0.7038	0.1371	-0.3626	-0.0001	-0.0020	-0.0003	5.1223
6	10.01	-0.00	0.8039	0.1830	-0.3977	-0.0030	-0.0014	0.0002	4.3930
7	12.01	-0.00	0.8931	0.2339	-0.4289	-0.0004	-0.0020	0.0003	3.8176
8	14.00	-0.00	0.9863	0.2926	-0.4586	-0.0004	0.0004	0.0003	3.3705
9	16.03	-0.00	1.0745	0.3560	-0.4891	-0.0006	-0.0002	0.0011	3.0175
10	18.01	-0.00	1.1512	0.4198	-0.5136	-0.0006	0.0004	0.0008	2.7418
11	20.10	-0.00	1.2181	0.4918	-0.5341	-0.0006	0.0008	0.0006	2.4767
12	22.03	-0.00	1.2887	0.5708	-0.5594	-0.0088	0.0027	0.0019	2.2574
13	23.97	-0.00	1.3384	0.6402	-0.5722	-0.0007	0.0013	0.0003	2.0905
14	25.97	-0.00	1.3608	0.7112	-0.5704	-0.0141	0.0044	0.0022	1.9134
15	28.01	-0.00	1.3307	0.7646	-0.5434	-0.0165	0.0045	0.0039	1.7403
16	0.00	0.00	0.2769	0.0533	-0.2085	-0.0074	-0.0027	0.0017	5.1908

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 49

TEMP = 90.
RN/FTX10-6 = 0.453438

VEL-FPS = 75.366

PO = 14.4057
MACH = 0.0674

CONF = W2B1V1E(-10)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2157	0.0382	0.1711	-0.0038	-0.0013	0.0009	-5.6336
2	2.01	-0.00	-0.1207	0.0366	0.1354	-0.0067	-0.0012	0.0011	-3.2940
3	4.03	-0.00	-0.0090	0.0358	0.0969	-0.0042	-0.0002	0.0004	-0.2529
4	5.86	-0.00	0.0829	0.0406	0.0650	-0.0098	-0.0009	0.0018	2.0435
5	7.99	-0.00	0.2039	0.0539	0.0268	-0.0046	-0.0013	0.0006	3.7773
6	10.01	-0.00	0.3187	0.0796	-0.0120	-0.0075	-0.0004	0.0012	4.0039
7	12.01	-0.00	0.4280	0.1148	-0.0541	-0.0050	-0.0007	0.0012	3.7274
8	14.00	-0.00	0.5422	0.1521	-0.0945	-0.0107	-0.0000	0.0016	3.5649
9	16.03	-0.00	0.6430	0.1971	-0.1327	-0.0081	0.0008	0.0021	3.2608
10	18.01	-0.00	0.7480	0.2535	-0.1698	-0.0029	-0.0002	0.0017	2.9499
11	20.10	-0.00	0.8495	0.3115	-0.2059	-0.0004	-0.0001	0.0010	2.7272
12	22.03	-0.00	0.9399	0.3766	-0.2423	-0.0060	0.0009	0.0014	2.4819
13	23.97	-0.00	1.0353	0.4487	-0.2803	-0.0062	0.0015	0.0017	2.3069
14	25.97	-0.00	1.0942	0.5240	-0.3035	-0.0009	-0.0002	0.0000	2.0882
15	28.01	-0.00	1.1251	0.5918	-0.3101	-0.0035	0.0014	0.0015	1.9010
16	0.00	0.00	-0.2136	0.0336	0.1692	-0.0147	-0.0012	0.0023	-6.3492

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44

QPSF = 6.60

RUN NO. 50

TEMP = 92.

RN/FTX10-6 = 0.451316

VEL-FPS = 75.508

PO = 14.4057

MACH = 0.0675

CONF = W2B1V1E(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0383	0.0516	-0.0199	-0.0055	-0.0010	0.0013	0.7514
2	2.01	-0.00	0.1292	0.0305	-0.0421	-0.0111	-0.0008	0.0020	4.2285
3	4.03	-0.00	0.2441	0.0457	-0.0718	-0.0084	-0.0011	0.0014	5.3391
4	5.86	-0.00	0.3449	0.0571	-0.1005	-0.0031	-0.0015	0.0002	6.0571
5	7.99	-0.00	0.4713	0.0834	-0.1374	-0.0060	-0.0014	0.0004	5.6473
6	10.01	-0.00	0.5831	0.1180	-0.1702	-0.0089	-0.0007	0.0015	4.9380
7	12.01	-0.00	0.6923	0.1627	-0.2053	-0.0008	-0.0009	0.0002	4.2546
8	14.00	-0.00	0.7991	0.2100	-0.2398	-0.0092	-0.0004	0.0015	3.8039
9	16.03	-0.00	0.9019	0.2702	-0.2730	0.0015	-0.0003	0.0006	3.3373
10	18.01	-0.00	1.0016	0.3322	-0.3139	0.0040	-0.0005	0.0000	3.0144
11	20.10	-0.00	1.1168	0.4130	-0.3611	-0.0016	-0.0002	0.0013	2.7035
12	22.03	-0.00	1.2139	0.4984	-0.4019	-0.0018	0.0014	0.0006	2.4353
13	23.97	-0.00	1.2868	0.5772	-0.4249	-0.0019	0.0001	0.0006	2.2294
14	25.97	-0.00	1.3220	0.6542	-0.4317	-0.0072	0.0018	-0.0000	2.0206
15	28.01	-0.00	1.3590	0.7358	-0.4364	0.0065	0.0005	-0.0030	1.8468
16	0.00	0.00	0.0377	0.0329	-0.0183	-0.0055	-0.0014	0.0013	1.1465

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PAGE NO. 089

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 51

TEMP = 92.

RN/FTX10-6= 0.451316

VEL-FPS= 75.508

PD= 14.4057

MACH= 0.0675

CONF= W2B1V1E(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0378	0.0329	-0.0164	-0.0082	-0.0010	0.0019	1.1495
2	0.00	-6.00	0.0468	0.0280	-0.0232	0.1009	0.0039	-0.0233	1.6685
3	0.00	-4.00	0.0391	0.0304	-0.0194	0.0709	0.0020	-0.0163	1.2864
4	0.00	-2.00	0.0400	0.0328	-0.0199	0.0353	0.0006	-0.0081	1.2197
5	0.00	0.00	0.0389	0.0329	-0.0165	-0.0055	-0.0014	0.0013	1.1832
6	-0.00	1.99	0.0375	0.0330	-0.0182	-0.0520	-0.0030	0.0109	1.1373
7	-0.00	3.99	0.0416	0.0307	-0.0226	-0.0684	-0.0048	0.0174	1.3537
8	-0.00	5.99	0.0424	0.0285	-0.0267	-0.0931	-0.0068	0.0231	1.4876
9	0.00	0.00	0.0389	0.0329	-0.0156	-0.0110	-0.0016	0.0025	1.1637

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PAGE NO. 090

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 52

TEMP = 92.

RN/FTX10-6= 0.451316

VEL-FPS= 75.503

PD= 14.4057

MACH= 0.0675

CONF= W2B1V1E(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5899	0.1169	-0.1720	-0.0007	-0.0014	0.0002	5.0461
2	10.01	-6.00	0.5991	0.1111	-0.1781	0.1007	0.0086	-0.0264	5.3877
3	10.01	-4.00	0.5939	0.1150	-0.1737	0.0569	0.0059	-0.0162	5.1603
4	10.01	-2.00	0.5917	0.1147	-0.1711	0.0430	0.0011	-0.0104	5.1572
5	10.01	-0.00	0.5921	0.1173	-0.1712	-0.0143	-0.0009	0.0017	5.0475
6	10.01	1.99	0.5901	0.1146	-0.1723	-0.0309	-0.0048	0.0091	5.1472
7	10.01	3.99	0.5919	0.1151	-0.1756	-0.0721	-0.0080	0.0182	5.1426
8	10.01	5.99	0.5956	0.1111	-0.1798	-0.1023	-0.0112	0.0265	5.3601
9	10.01	-0.00	0.5889	0.1167	-0.1700	-0.0034	-0.0015	0.0009	5.0457

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PAGE NO. 091

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 53

TEMP = 92.
RN/FTX10-6= 0.451267

VEL-FPS= 75.516

PO= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.1093	0.4152	-0.3562	0.0038	-0.0002	0.0005	2.6713
2	20.10	-6.00	1.1232	0.4127	-0.3654	0.0944	0.0079	-0.0266	2.7215
3	20.10	-4.00	1.1221	0.4149	-0.3678	0.0724	0.0055	-0.0196	2.7046
4	20.10	-2.00	1.1172	0.4156	-0.3628	0.0340	-0.0029	-0.0098	2.6879
5	20.10	-0.00	1.1164	0.4178	-0.3591	0.0038	-0.0008	0.0007	2.6716
6	20.09	1.99	1.1218	0.4175	-0.3644	-0.0401	-0.0027	0.0123	2.6868
7	20.09	3.99	1.1224	0.4153	-0.3657	-0.0649	-0.0058	0.0213	2.7025
8	20.09	5.99	1.1207	0.4123	-0.3705	-0.0952	-0.0080	0.0285	2.7177
9	20.10	-0.00	1.1163	0.4178	-0.3609	0.0065	-0.0007	0.0001	2.6715

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 54

TEMP = 92.

RN/FTX10-6= 0.451348

VEL-FPS= 75.503

PO= 14.4057

MACH= 0.0675

CONF= W2B1V1E(0)SC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0313	0.0399	-0.0143	-0.0055	-0.0014	0.0018	0.7849
2	0.00	-6.00	0.0403	0.0350	-0.0211	0.0982	0.0043	-0.0232	1.1500
3	0.00	-4.00	0.0359	0.0374	-0.0175	0.0764	0.0020	-0.0160	0.9606
4	0.00	-2.00	0.0359	0.0398	-0.0143	0.0354	0.0003	-0.0081	0.9024
5	0.00	0.00	0.0369	0.0398	-0.0129	-0.0055	-0.0014	0.0012	0.9254
6	-0.00	1.99	0.0344	0.0376	-0.0153	-0.0301	-0.0037	0.0086	0.9152
7	-0.00	3.99	0.0428	0.0377	-0.0197	-0.0630	-0.0055	0.0162	1.1366
8	-0.00	5.99	0.0436	0.0355	-0.0243	-0.1013	-0.0063	0.0234	1.2265
9	0.00	0.00	0.0357	0.0399	-0.0151	-0.0000	-0.0014	0.0011	0.8950

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 55

TEMP = 92.

PD= 14.4057

RN/FTX10-6= 0.451364

VEL-FPS= 75.500

MACH= 0.0675

CONF= W2B1V1E(0)SC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRN	CYM	L/D
1	10.01	-0.00	0.5982	0.1204	-0.1488	-0.0058	-0.0007	0.0013	4.9654
2	10.01	-6.00	0.6080	0.1172	-0.1561	0.0956	0.0098	-0.0260	5.1852
3	10.01	-4.00	0.6022	0.1186	-0.1510	0.0736	0.0053	-0.0189	5.0763
4	10.01	-2.00	0.6016	0.1209	-0.1501	0.0379	0.0024	-0.0095	4.9729
5	10.01	-0.00	0.5994	0.1206	-0.1485	0.0132	-0.0005	-0.0015	4.9686
6	10.01	1.99	0.6011	0.1210	-0.1513	-0.0279	-0.0048	0.0089	4.9648
7	10.01	3.99	0.6023	0.1190	-0.1550	-0.0581	-0.0084	0.0167	5.0601
8	10.01	5.99	0.6045	0.1171	-0.1578	-0.1048	-0.0116	0.0238	5.1585
9	10.01	-0.00	0.6014	0.1210	-0.1500	-0.0031	-0.0008	0.0007	4.9686

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 56

TEMP = 92.
RN/FTX10-6= 0.451364

VEL-FPS= 75.500

PD= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.1348	0.4192	-0.3308	-0.0011	0.0010	-0.0021	2.7067
2	20.10	-6.00	1.1497	0.4171	-0.3434	0.1003	0.0089	-0.0307	2.7565
3	20.10	-4.00	1.1469	0.4185	-0.3371	0.0673	0.0049	-0.0205	2.7400
4	20.10	-2.00	1.1393	0.4207	-0.3274	0.0263	0.0038	-0.0100	2.7076
5	20.10	-0.00	1.1360	0.4196	-0.3280	0.0097	0.0002	-0.0028	2.7071
6	20.09	1.99	1.1387	0.4207	-0.3324	-0.0314	-0.0015	0.0079	2.7062
7	20.09	3.99	1.1410	0.4192	-0.3398	-0.0590	-0.0042	0.0198	2.7213
8	20.09	5.99	1.1444	0.4161	-0.3455	-0.0838	-0.0070	0.0276	2.7367
9	20.10	-0.00	1.1465	0.4285	-0.3347	-0.0011	0.0022	-0.0020	2.6754

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44

QPSF = 6.60

RUN NO. 57

TEMP = 92.

RN/FIX10-6= 0.451332

VEL-FPS= 75.506

PD= 14.4057

MACH= 0.0675

CONF= W2B1V1E(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0259	0.0328	-0.0118	-0.0027	-0.0011	0.0017	0.7889
2	2.61	-0.00	0.1294	0.0398	-0.0327	-0.0027	-0.0006	0.0011	3.2501
3	4.03	-0.00	0.2432	0.0525	-0.0589	-0.0028	-0.0005	0.0006	4.6286
4	5.86	-0.00	0.3505	0.0645	-0.0839	-0.0031	-0.0004	0.0005	5.4297
5	7.99	-0.00	0.4801	0.0915	-0.1173	-0.0030	-0.0009	0.0007	5.2451
6	10.01	-0.00	0.5944	0.1293	-0.1495	-0.0031	-0.0006	0.0001	4.5965
7	12.01	-0.00	0.7034	0.1743	-0.1804	-0.0034	-0.0005	0.0000	4.0346
8	14.00	-0.00	0.8168	0.2213	-0.2148	-0.0035	0.0006	0.0003	3.6898
9	16.03	-0.00	0.9170	0.2815	-0.2488	-0.0034	0.0006	0.0009	3.2566
10	18.01	-0.00	1.0268	0.3548	-0.2886	0.0045	0.0006	-0.0010	2.8934
11	20.10	-0.00	1.1236	0.4251	-0.3262	-0.0011	0.0007	-0.0032	2.6432
12	22.03	-0.00	1.2332	0.5108	-0.3691	0.0040	-0.0000	-0.0013	2.4139
13	23.97	-0.00	1.3070	0.5933	-0.3849	0.0014	0.0011	-0.0013	2.2029
14	25.97	-0.00	1.3699	0.6875	-0.4021	0.0095	-0.0015	-0.0039	1.9926
15	28.01	-0.00	1.3678	0.7556	-0.3783	0.0022	0.0080	-0.0060	1.8102
16	0.00	0.00	0.0412	0.0399	-0.0150	-0.0082	-0.0010	0.0019	1.0326

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 58

TEMP = 92.

RN/FTX10-6= 0.451348

VEL-FPS= 75.503

PO= 14.4057
MACH= 0.0675

CONF= H2B1V1E(10)SC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2653	0.0485	-0.1977	0.0036	-0.0015	0.0002	5.4665
2	2.01	-0.00	0.3723	0.0640	-0.2226	0.0008	-0.0014	-0.0001	5.8093
3	4.03	-0.00	0.4927	0.0835	-0.2535	0.0035	-0.0013	-0.0002	5.8966
4	5.86	-0.00	0.6075	0.1045	-0.2824	0.0034	-0.0016	-0.0001	5.8141
5	7.99	-0.00	0.7355	0.1409	-0.3149	0.0006	-0.0011	-0.0001	5.2170
6	10.01	-0.00	0.8468	0.1875	-0.3465	-0.0022	-0.0005	0.0004	4.5157
7	12.01	-0.00	0.9488	0.2427	-0.3786	-0.0023	-0.0002	-0.0001	3.9091
8	14.00	-0.00	1.0566	0.3022	-0.4098	0.0057	-0.0001	-0.0010	3.4963
9	16.03	-0.00	1.1477	0.3690	-0.4372	0.0002	0.0009	-0.0000	3.1098
10	18.01	-0.00	1.2419	0.4436	-0.4679	0.0083	0.0002	-0.0012	2.7989
11	20.10	-0.00	1.3466	0.5283	-0.5117	0.0080	-0.0007	-0.0020	2.5487
12	22.03	-0.00	1.4330	0.6186	-0.5436	0.0079	-0.0007	-0.0020	2.3164
13	23.97	-0.00	1.4718	0.6988	-0.5417	0.0081	0.0004	-0.0020	2.1060
14	25.97	-0.00	1.4540	0.7685	-0.5063	0.0194	-0.0046	-0.0055	1.8917
15	28.01	-0.00	1.4624	0.8415	-0.4884	-0.0043	0.0067	-0.0030	1.7377
16	0.00	0.00	0.2773	0.0555	-0.2016	0.0008	-0.0021	0.0003	4.9877

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 59

TEMP = 92.
RN/FTX10-6 = 0.451316

VEL-FPS = 75.508

PO = 14.4057
MACH = 0.0675

CONF = W2R1V1E(-10)SC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2137	0.0313	0.1684	-0.0092	-0.0010	0.0022	-6.8265
2	2.01	-0.00	-0.1144	0.0343	0.1505	-0.0092	-0.0004	0.0016	-3.3324
3	4.03	-0.00	-0.0075	0.0355	0.1296	-0.0092	-0.0002	0.0021	-0.2132
4	5.86	-0.00	-0.1038	0.0398	0.1066	-0.0011	-0.0007	0.0008	2.6037
5	7.99	-0.00	0.2244	0.0586	0.0771	-0.0066	-0.0004	0.0010	3.8239
6	10.01	-0.00	0.3462	0.0837	0.0429	-0.0040	-0.0000	0.0008	4.1331
7	12.01	-0.00	0.4612	0.1210	0.0093	-0.0014	-0.0000	0.0007	3.8087
8	14.00	-0.00	0.5770	0.1575	-0.0273	-0.0016	-0.0003	0.0003	3.6635
9	16.03	-0.00	0.6907	0.2100	-0.0634	-0.0017	0.0001	0.0007	3.2893
10	18.01	-0.00	0.8025	0.2703	-0.1038	0.0008	0.0010	-0.0002	2.9680
11	20.10	-0.00	0.9176	0.3380	-0.1515	0.0005	0.0012	-0.0026	2.7140
12	22.03	-0.00	1.0312	0.4199	-0.1979	-0.0052	-0.0000	-0.0007	2.4555
13	23.97	-0.00	1.1259	0.4993	-0.2222	0.0029	0.0013	-0.0017	2.2591
14	25.97	-0.00	1.1982	0.5814	-0.2394	0.0083	-0.0023	-0.0031	2.0608
15	28.01	-0.00	1.2475	0.6664	-0.2433	0.0087	0.0023	-0.0058	1.9720
16	0.00	0.00	-0.2070	0.0383	0.1681	-0.0092	-0.0009	0.0016	-5.4041

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 60
QPSF = 6.60

RUN NO. 60

TEMP = 91.
RN/FTX10-6= 0.452148

VEL-FPS= 75.475

PO= 14.3860
MACH= 0.0675

CONF= W2B1V1E(0)GC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0300	0.0352	-0.0197	0.0026	-0.0008	0.0010	0.8505
2	2.01	-0.00	0.1286	0.0376	-0.0517	-0.0003	-0.0017	0.0017	3.4146
3	4.03	-0.00	0.2368	0.0477	-0.0849	-0.0004	-0.0009	0.0012	4.9645
4	5.86	-0.00	0.3407	0.0592	-0.1172	0.0020	-0.0014	-0.0003	5.7514
5	7.99	-0.00	0.4616	0.0846	-0.1518	0.0019	-0.0010	-0.0004	5.4552
6	10.01	-0.00	0.5804	0.1225	-0.1880	0.0017	-0.0015	-0.0002	4.7360
7	12.01	-0.00	0.6892	0.1693	-0.2181	-0.0037	0.0001	0.0006	4.0652
8	14.00	-0.00	0.8029	0.2207	-0.2490	-0.0037	0.0006	0.0005	3.6373
9	16.03	-0.00	0.9318	0.2863	-0.2934	-0.0039	0.0020	0.0000	3.2545
10	18.01	-0.00	1.0723	0.3603	-0.3397	0.0013	0.0019	-0.0001	2.9759
11	20.10	-0.00	1.2148	0.4465	-0.3864	0.0010	0.0019	-0.0007	2.7206
12	22.03	-0.00	1.3133	0.5258	-0.4043	0.0038	0.0020	-0.0004	2.4975
13	23.97	-0.00	1.3761	0.5984	-0.4024	0.0014	0.0046	0.0000	2.2993
14	25.97	-0.00	1.4034	0.6749	-0.3922	0.0043	0.0014	0.0007	2.0791
15	28.01	-0.00	1.4609	0.7655	-0.4021	-0.0008	0.0044	0.0016	1.9083
16	0.00	0.00	0.0386	0.0353	-0.0217	-0.0083	-0.0010	0.0024	1.0958

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 61
QPSF = 6.60

RUN NO. 61

TEMP = 91.
RN/FTX10-6= 0.452051

VEL-FPS= 75.491

PO= 14.3860
MACH= 0.0675

CONF= W2B1V1E(0)GC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0234	0.0329	-0.0177	0.0026	-0.0009	0.0010	0.7130
2	2.01	-0.00	0.1264	0.0352	-0.0533	-0.0057	-0.0009	0.0019	3.5836
3	4.03	-0.00	0.2216	0.0419	-0.0973	-0.0005	-0.0003	0.0006	5.2752
4	5.86	-0.00	0.3279	0.0509	-0.1230	-0.0007	-0.0006	0.0001	6.4559
5	7.99	-0.00	0.4536	0.0742	-0.1639	0.0017	-0.0010	-0.0003	6.1126
6	10.01	-0.00	0.5699	0.1137	-0.2056	0.0015	-0.0009	-0.0003	5.0087
7	12.01	-0.00	0.6777	0.1600	-0.2407	0.0068	-0.0004	-0.0011	4.2350
8	14.00	-0.00	0.7918	0.2135	-0.2807	0.0012	0.0003	-0.0000	3.7021
9	16.03	-0.00	0.9245	0.2773	-0.3327	-0.0017	0.0023	-0.0005	3.3331
10	18.01	-0.00	1.0588	0.3491	-0.3846	0.0034	0.0016	-0.0016	3.0328
11	20.10	-0.00	1.1956	0.4376	-0.4372	0.0004	0.0021	-0.0006	2.7319
12	22.03	-0.00	1.2899	0.5146	-0.4646	0.0085	0.0015	-0.0019	2.5065
13	23.97	-0.00	1.3548	0.5925	-0.4734	0.0058	0.0006	-0.0009	2.2866
14	25.97	-0.00	1.4006	0.6668	-0.4772	0.0007	0.0058	-0.0035	2.1003
15	28.01	-0.00	1.4361	0.7533	-0.4783	0.0007	0.0029	-0.0028	1.9062
16	0.00	0.00	0.0364	0.0353	-0.0220	-0.0056	-0.0007	0.0013	1.0335

REPORT NO. LSWT 422
PAGE NO. 100

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 62
QPSF = 6.60

RUN NO. 62

TEMP = 91.
RN/FTX10-6= 0.452027

VEL-FPS= 75.495

PD= 14.3811
MACH= 0.0675

CONF= W2B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0342	0.0353	-0.0219	-0.0110	-0.0010	0.0020	0.9704
2	2.01	-0.00	0.1286	0.0376	-0.0522	-0.0030	-0.0010	0.0012	3.4136
3	4.03	-0.00	0.2314	0.0450	-0.0867	-0.0086	-0.0001	0.0019	5.1403
4	5.86	-0.00	0.3333	0.0538	-0.1206	-0.0088	-0.0004	0.0014	6.1986
5	7.99	-0.00	0.4551	0.0814	-0.1591	-0.0036	-0.0004	0.0008	5.5278
6	10.01	-0.00	0.5745	0.1216	-0.1988	-0.0010	-0.0008	-0.0002	4.7226
7	12.01	-0.00	0.6789	0.1673	-0.2304	-0.0011	-0.0000	0.0001	4.0558
8	14.00	-0.00	0.7936	0.2186	-0.2642	-0.0039	0.0012	0.0004	3.6302
9	16.03	-0.00	0.9229	0.2816	-0.3165	-0.0015	0.0014	-0.0002	3.2773
10	18.01	-0.00	1.0611	0.3520	-0.3643	0.0036	0.0018	-0.0001	3.0132
11	20.10	-0.00	1.1987	0.4359	-0.4106	-0.0047	0.0018	0.0001	2.7494
12	22.03	-0.00	1.3022	0.5193	-0.4412	-0.0020	0.0027	-0.0004	2.5075
13	23.97	-0.00	1.3632	0.5932	-0.4430	0.0061	-0.0006	0.0000	2.3977
14	25.97	-0.00	1.4071	0.6773	-0.4412	-0.0015	0.0043	-0.0016	2.0772
15	28.01	-0.00	1.4340	0.7517	-0.4378	-0.0042	0.0017	0.0009	1.9075
16	0.00	0.00	0.0299	0.0353	-0.0215	-0.0056	-0.0011	0.0013	0.8456

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PAGE NO. 101

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 63

TEMP = 91.

RN/FTX10-6= 0.452027

VEL-FPS= 75.495

PG= 14.3811

MACH= 0.0675

CONF= W2B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0278	0.0376	-0.0187	-0.0055	-0.0011	-0.0013	0.7397
2	0.00	-6.00	0.0388	0.0328	-0.0288	0.0954	0.0040	-0.0231	1.1328
3	0.00	-4.00	0.0323	0.0351	-0.0223	0.0626	0.0022	-0.0144	0.9208
4	0.00	-2.00	0.0312	0.0352	-0.0212	0.0326	0.0006	-0.0075	0.8855
5	0.00	0.00	0.0288	0.0376	-0.0215	-0.0001	-0.0011	0.0011	0.7653
6	-0.00	1.99	0.0341	0.0353	-0.0223	-0.0384	-0.0026	0.0088	0.9642
7	-0.00	3.99	0.0326	0.0331	-0.0262	-0.0685	-0.0042	0.0180	0.9353
8	-0.00	5.99	0.0383	0.0309	-0.0312	-0.1013	-0.0053	0.0245	1.2581
9	0.00	0.00	0.0321	0.0352	-0.0203	-0.0056	-0.0011	0.0013	0.9111

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PAGE NO. 102

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 64

TEMP = 94.
RN/FTX10-6 = 0.448896

VEL-FPS = 75.703

PO = 14.3811
MACH = 0.0677

CONF = W2B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5742	0.1168	-0.1976	-0.0010	-0.0008	-0.0002	4.9151
2	10.01	-6.00	0.5833	0.1111	-0.2042	0.0948	0.0087	-0.0256	5.2494
3	10.01	-4.00	0.5829	0.1134	-0.2009	0.0620	0.0057	-0.0168	5.1371
4	10.01	-2.00	0.5770	0.1148	-0.1982	0.0263	0.0023	-0.0084	5.0229
5	10.01	-0.00	0.5755	0.1218	-0.1993	-0.0038	-0.0011	-0.0001	4.7237
6	10.01	1.99	0.5767	0.1197	-0.1997	-0.0449	-0.0042	0.0095	4.8152
7	10.01	3.99	0.5769	0.1175	-0.2019	-0.0670	-0.0077	0.0170	4.5092
8	10.01	5.99	0.5815	0.1137	-0.2080	-0.1054	-0.0105	0.0249	5.1131
9	10.01	-0.00	0.5776	0.1222	-0.1999	-0.0065	-0.0004	-0.0001	4.7265

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PAGE NO. 103

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 65

TEMP = 96.

RN/FTX10-6 = -0.446824

VEL-FPS = 75.843

PO = 14.3811

MACH = 0.0678

CONF = W2B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	1.1966	0.4352	-0.4109	-0.0019	0.0025	-0.0008	2.7495
2	20.10	-6.00	1.1761	0.4199	-0.4044	0.1102	0.0017	-0.0281	2.8004
3	20.10	-4.00	1.1835	0.4277	-0.4061	0.0691	0.0005	-0.0187	2.7667
4	20.10	-2.00	1.1936	0.4315	-0.4087	0.0417	0.0005	-0.0102	2.7660
5	20.10	-0.00	1.1946	0.4344	-0.4094	-0.0019	0.0020	-0.0000	2.7496
6	20.09	1.99	1.1942	0.4319	-0.4096	-0.0430	0.0030	0.0096	2.7649
7	20.09	3.99	1.1827	0.4252	-0.4033	-0.0730	0.0039	0.0184	2.7814
8	20.09	5.99	1.1723	0.4214	-0.4001	-0.1059	0.0026	0.0271	2.7815
9	20.10	-0.00	1.2051	0.4408	-0.4127	-0.0019	0.0019	-0.0005	2.7338

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 62
QPSF = 0.60

RUN NO. 66

TEMP = 95.
RH/FTX10-6 = 0.447882

VEL-FPS = 75.769

PO = 14.3811
MACH = 0.0677

CONF = W2B1V1E(10)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2702	0.0533	-0.2104	-0.0047	-0.0024	0.0010	5.0631
2	2.01	-0.00	0.3692	0.0619	-0.2447	-0.0021	-0.0020	0.0005	5.9639
3	4.03	-0.00	0.4766	0.0757	-0.2796	-0.0023	-0.0020	0.0006	6.2937
4	5.86	-0.00	0.5795	0.0926	-0.3160	0.0001	-0.0020	0.0000	6.2554
5	7.99	-0.00	0.7104	0.1380	-0.3617	-0.0055	-0.0012	-0.0003	5.1462
6	10.01	-0.00	0.8121	0.1819	-0.3926	-0.0001	-0.0011	0.0000	4.4625
7	12.01	-0.00	0.9083	0.2371	-0.4165	-0.0001	-0.0003	-0.0000	3.8330
8	14.00	-0.00	1.0181	0.2980	-0.4534	-0.0003	0.0000	-0.0001	3.4162
9	16.03	-0.00	1.1578	0.3776	-0.5121	-0.0032	0.0025	-0.0002	3.0656
10	18.01	-0.00	1.2866	0.4567	-0.5573	-0.0035	0.0010	0.0001	2.8168
11	20.10	-0.00	1.4123	0.5457	-0.5974	0.0017	0.0018	0.0002	2.5877
12	22.03	-0.00	1.4605	0.6125	-0.5887	-0.0060	0.0039	-0.0005	2.3845
13	23.97	-0.00	1.4998	0.6938	-0.5807	0.0022	0.0017	-0.0006	2.1617
14	25.97	-0.00	1.5142	0.7672	-0.5607	-0.0054	0.0050	0.0002	1.9736
15	28.01	-0.00	1.5302	0.8439	-0.5503	0.0081	-0.0035	0.0011	1.8152
16	0.00	0.00	0.2789	0.0533	-0.2134	-0.0019	-0.0021	0.0004	5.2249

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 62
QPSF = 6.60

RUN NO. 67

TEMP = 93.

PO = 14.3713

RN/FTX10-6 = 0.449849

VEL-FPS = 75.649

MACH = 0.0676

CONF = W2B1V1E(-10)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2189	0.0359	0.1728	-0.0037	-0.0007	0.0009	-6.0934
2	2.01	-0.00	-0.1181	0.0296	0.1383	-0.0067	-0.0009	0.0016	-3.9824
3	4.03	-0.00	-0.0173	0.0328	0.1042	-0.0068	-0.0004	0.0016	-0.5292
4	5.86	-0.00	0.0825	0.0381	0.0740	-0.0070	-0.0003	0.0016	2.1667
5	7.99	-0.00	0.2004	0.0509	0.0384	-0.0044	0.0000	0.0009	3.9302
6	10.01	-0.00	0.3191	0.0747	0.0016	-0.0073	-0.0003	0.0000	4.2683
7	12.01	-0.00	0.4426	0.1129	-0.0395	-0.0102	0.0000	0.0011	3.9152
8	14.00	-0.00	0.5541	0.1499	-0.0708	-0.0022	-0.0001	0.0004	3.6959
9	16.03	-0.00	0.6764	0.2040	-0.1127	-0.0051	0.0006	0.0002	3.3149
10	18.01	-0.00	0.8171	0.2634	-0.1580	0.0028	0.0008	-0.0012	3.1017
11	20.10	-0.00	0.9620	0.3400	-0.2102	-0.0000	0.0024	-0.0000	2.8294
12	22.03	-0.00	1.0607	0.4203	-0.2497	0.0051	0.0019	-0.0006	2.5714
13	23.97	-0.00	1.1802	0.4974	-0.2770	0.0051	0.0022	-0.0009	2.3724
14	25.97	-0.00	1.2333	0.5755	-0.2801	0.0051	-0.0000	-0.0005	2.1429
15	28.01	-0.00	1.2795	0.6441	-0.2845	0.0053	0.0016	-0.0009	1.9864
16	0.00	0.00	-0.2081	0.0359	0.1692	-0.0065	-0.0013	0.0015	-5.7872

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 68

TEMP = 94.

RN/FTX10-6= 0.448670

VEL-FPS= 75.741

PO= 14.3615
MACH= 0.0677

CONF= W281V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0256	0.0352	-0.0189	-0.0028	-0.0008	0.0012	0.7261
2	2.01	-0.00	0.1203	0.0445	-0.0598	-0.0031	-0.0007	0.0012	2.7034
3	4.03	-0.00	0.2253	0.0424	-0.1035	-0.0034	-0.0003	0.0013	5.3099
4	5.86	-0.00	0.3262	0.0463	-0.1470	-0.0010	-0.0007	0.0002	7.6355
5	7.99	-0.00	0.4393	0.0773	-0.2000	-0.0014	-0.0002	0.0008	5.6799
6	10.01	-0.00	0.5520	0.1087	-0.2500	0.0009	-0.0006	0.0003	5.0744
7	12.01	-0.00	0.6502	0.1500	-0.2951	-0.0020	-0.0001	0.0020	4.3325
8	14.00	-0.00	0.7484	0.1938	-0.3419	-0.0051	0.0008	0.0013	3.8604
9	16.03	-0.00	0.8638	0.2535	-0.4035	-0.0001	0.0005	0.0013	3.4064
10	18.01	-0.00	0.9893	0.3227	-0.4655	0.0021	0.0005	0.0013	3.0657
11	20.10	-0.00	1.1058	0.3934	-0.5174	-0.0007	0.0039	0.0013	2.8104
12	22.03	-0.00	1.1366	0.4434	-0.5174	-0.0059	0.0074	0.0004	2.5630
13	23.97	-0.00	1.0750	0.4789	-0.4732	0.0078	-0.0003	0.0002	2.2446
14	25.97	-0.00	1.0337	0.5146	-0.4527	0.0052	-0.0010	-0.0005	2.0064
15	28.01	-0.00	0.9707	0.5406	-0.4228	0.0055	-0.0012	-0.0023	1.7555
16	0.00	0.00	0.0364	0.0376	-0.0226	-0.0056	-0.0007	0.0013	0.9666

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 69

TEMP = 92.
RN/FTX10-6= 0.450726

VEL-FPS= 75.607

PO= 14.3615
MACH= 0.0676

CONF= W2B1V1E(0)H2F(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.0682	0.0508	0.0701	0.0007	-0.0007	-0.0001	-1.3431
2	2.01	-0.00	0.0346	0.0500	0.0214	0.0031	-0.0004	-0.0007	0.6997
3	4.03	-0.00	0.1454	0.0501	-0.0205	0.0027	-0.0007	-0.0006	2.8579
4	5.86	-0.00	0.2436	0.0536	-0.0728	-0.0003	-0.0010	-0.0004	4.5414
5	7.99	-0.00	0.3663	0.0735	-0.1294	-0.0007	-0.0006	0.0001	4.9827
6	10.01	-0.00	0.4722	0.1106	-0.1775	-0.0037	-0.0004	0.0003	4.2673
7	12.01	-0.00	0.5663	0.1434	-0.2183	-0.0040	0.0009	0.0008	3.9472
8	14.00	-0.00	0.6545	0.1865	-0.2543	-0.0042	-0.0003	0.0015	3.5090
9	16.03	-0.00	0.7379	0.2358	-0.2902	-0.0017	-0.0001	0.0008	3.1290
10	18.01	-0.00	0.8509	0.2962	-0.3428	0.0033	-0.0001	0.0007	2.8726
11	20.10	-0.00	0.9497	0.3575	-0.3802	-0.0022	0.0022	0.0011	2.6567
12	22.03	-0.00	0.9623	0.3992	-0.3654	-0.0181	0.0075	0.0034	2.4102
13	23.97	-0.00	0.9252	0.4367	-0.3486	-0.0017	0.0019	-0.0001	2.1126
14	25.97	-0.00	0.9043	0.4741	-0.3501	-0.0045	0.0018	-0.0012	1.9075
15	28.01	-0.00	0.8918	0.5033	-0.3534	-0.0018	0.0008	-0.0002	1.7720
16	0.00	0.00	-0.0574	0.0532	0.0660	-0.0047	-0.0009	0.0005	-1.0799

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

04/30/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 70

TEMP = 94.

RN/FTX10-6= 0.448638

VEL-FPS= 75.747

PD= 14.3615
MACH= 0.0677

CONF= W2R1V1E(-10)H2F(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2770	0.0518	0.2275	-0.0031	-0.0006	0.0013	-5.3465
2	2.01	-0.00	-0.1773	0.0482	0.1821	-0.0007	-0.0002	0.0002	-3.6741
3	4.03	-0.00	-0.0642	0.0410	0.1306	-0.0039	-0.0007	0.0015	-1.5634
4	5.86	-0.00	0.0277	0.0394	0.0885	-0.0069	-0.0000	0.0016	0.7028
5	7.99	-0.00	0.1448	0.0503	0.0375	0.0008	-0.0005	0.0003	2.8753
6	10.01	-0.00	0.2560	0.0734	-0.0128	-0.0049	0.0000	0.0010	3.4882
7	12.01	-0.00	0.3610	0.1007	-0.0580	-0.0025	0.0001	0.0010	3.5840
8	14.00	-0.00	0.4628	0.1373	-0.1009	-0.0055	-0.0000	0.0017	3.3697
9	16.03	-0.00	0.5447	0.1764	-0.1327	-0.0030	-0.0006	0.0024	3.0871
10	18.01	-0.00	0.6525	0.2252	-0.1785	-0.0087	0.0011	0.0021	2.8966
11	20.10	-0.00	0.7694	0.2901	-0.2296	-0.0089	0.0035	0.0012	2.6522
12	22.03	-0.00	0.8316	0.3402	-0.2486	-0.0039	0.0049	0.0016	2.4444
13	23.97	-0.00	0.8197	0.3783	-0.2291	-0.0140	0.0060	0.0011	2.1667
14	25.97	-0.00	0.8028	0.4104	-0.2324	-0.0004	0.0045	-0.0018	1.9563
15	28.01	-0.00	0.7796	0.4370	-0.2376	0.0020	0.0013	-0.0027	1.7837
16	0.00	0.00	-0.2705	0.0541	0.2255	-0.0113	-0.0005	0.0021	-4.9931

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 71

TEMP = 94.
RN/FTX10-6= 0.448509

VEL-FPS= 75.769

PU= 14.3516
MACH= 0.0677

CONF= W2B1V1E(10)H2F(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.1541	0.0827	-0.1019	0.0019	-0.0017	-0.0004	1.5617
2	2.01	-0.00	0.2570	0.0875	-0.1488	-0.0011	-0.0012	0.0003	2.9362
3	4.03	-0.00	0.3708	0.0934	-0.2023	-0.0015	-0.0016	-0.0006	3.9693
4	5.86	-0.00	0.4747	0.1072	-0.2528	-0.0019	-0.0019	-0.0004	4.4268
5	7.99	-0.00	0.5934	0.1401	-0.3109	-0.0133	-0.0008	0.0014	4.2359
6	10.01	-0.00	0.6902	0.1792	-0.3540	-0.0081	-0.0007	0.0019	3.8507
7	12.01	-0.00	0.7727	0.2224	-0.3850	-0.0082	0.0000	0.0017	3.4743
8	14.00	-0.00	0.8397	0.2703	-0.4109	-0.0056	0.0006	0.0009	3.1067
9	16.03	-0.00	0.9333	0.3300	-0.4576	-0.0086	0.0011	0.0021	2.8277
10	18.01	-0.00	1.0447	0.3952	-0.5102	-0.0062	0.0027	0.0014	2.6433
11	20.10	-0.00	1.1013	0.4541	-0.5187	-0.0141	0.0084	0.0017	2.4251
12	22.03	-0.00	1.0369	0.4708	-0.4597	-0.0163	0.0051	0.0034	2.2029
13	23.97	-0.00	1.0099	0.5138	-0.4526	-0.0190	0.0048	0.0029	1.9653
14	25.97	-0.00	0.9804	0.5513	-0.4532	0.0079	-0.0018	0.0004	1.7724
15	28.01	-0.00	0.9737	0.5877	-0.4610	-0.0109	0.0047	-0.0018	1.6567
16	0.00	0.00	0.1595	0.0828	-0.1046	-0.0063	-0.0019	0.0004	1.9250

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 72
QPSF = 6.60

RUN NO. 72

TEMP = 90.
RN/FTX10-6 = 0.452976

VEL-FPS = 75.443

PO = 14.3713
MACH = 0.0675

CONF = W1B1V1E(0)H2F(1,-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.0651	0.0555	-0.0664	0.0007	-0.0010	0.0004	-1.17
2	2.01	-0.00	0.0334	0.0477	0.0183	0.0003	-0.0013	0.0010	0.69
3	4.03	-0.00	0.1373	0.0497	-0.0354	-0.0027	-0.0006	0.0006	2.76
4	5.86	-0.00	0.2412	0.0606	-0.0869	-0.0031	-0.0009	0.0008	3.97
5	7.99	-0.00	0.3537	0.0719	-0.1435	-0.0009	-0.0005	0.0007	4.91
6	10.01	-0.00	0.4660	0.0955	-0.2007	-0.0040	-0.0003	0.0014	4.87
7	12.01	-0.00	0.5612	0.1284	-0.2509	-0.0045	-0.0006	0.0016	4.57
8	14.00	-0.00	0.6405	0.1666	-0.2936	-0.0020	0.0011	0.0017	3.64
9	16.03	-0.00	0.6896	0.2151	-0.3231	0.0031	-0.0016	0.0001	3.20
10	18.01	-0.00	0.7169	0.2628	-0.3452	0.0002	-0.0008	-0.0012	2.72
11	20.10	-0.00	0.7366	0.3072	-0.3676	0.0028	0.0008	-0.0000	2.39
12	22.03	-0.00	0.7155	0.3453	-0.3720	-0.0023	0.0068	-0.0024	2.07
13	23.97	-0.00	0.7205	0.3748	-0.3896	0.0026	0.0014	-0.0003	1.92
14	25.97	-0.00	0.7454	0.4160	-0.4150	-0.0191	0.0074	0.0058	1.79
15	28.01	-0.00	0.7365	0.4562	-0.4143	-0.0056	0.0039	0.0052	1.61
16	0.00	0.00	-0.0597	0.0508	0.0657	-0.0074	-0.0006	0.0012	-1.17

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PAGE NO. 111

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 72
QPSF = 6.60

RUN NO. 73

TEMP = 90.
RN/FTX10-6= 0.452813

VEL-FPS= 75.470

PO= 14.3615
MACH= 0.0675

CONF= W1B1V1E(0)H2F(1,10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0782	0.0475	-0.0741	0.0020	-0.0015	0.0006	1.6464
2	2.01	-0.00	0.1755	0.0517	-0.1248	-0.0010	-0.0011	0.0008	3.3914
3	4.03	-0.00	0.2845	0.0614	-0.1800	-0.0042	-0.0006	0.0009	4.6318
4	5.86	-0.00	0.3870	0.0746	-0.2323	-0.0046	-0.0006	0.0010	5.1362
5	7.99	-0.00	0.5028	0.0942	-0.2920	-0.0024	-0.0006	0.0005	5.5330
6	10.01	-0.00	0.6042	0.1237	-0.3453	-0.0028	-0.0002	0.0011	4.6829
7	12.01	-0.00	0.7046	0.1627	-0.3992	-0.0059	-0.0003	0.0018	4.3294
8	14.00	-0.00	0.7904	0.2102	-0.4473	0.0018	0.0001	0.0010	3.7589
9	16.03	-0.00	0.8505	0.2702	-0.4864	0.0042	-0.0005	0.0006	3.1474
10	18.01	-0.00	0.8750	0.3132	-0.4989	-0.0039	-0.0001	0.0025	2.7935
11	20.10	-0.00	0.8742	0.3563	-0.4965	-0.0037	0.0040	-0.0002	2.4535
12	22.03	-0.00	0.8273	0.3890	-0.4672	-0.0062	0.0023	0.0015	2.1264
13	23.97	-0.00	0.7895	0.4059	-0.4447	-0.0059	0.0023	0.0020	1.9445
14	25.97	-0.00	0.7646	0.4333	-0.4292	-0.0057	0.0044	0.0014	1.7645
15	28.01	-0.00	0.7572	0.4674	-0.4300	-0.0273	0.0096	0.0060	1.6201
16	0.00	0.00	0.0814	0.0451	-0.0747	-0.0089	-0.0014	0.0015	1.8027

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PAGE NO. 112

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 72
QPSF = 6.60

RUN NO. 74

TEMP = 90.

RN/FTX10-6= 0.452781

VEL-FPS= 75.476

PO= 14.3615
MACH= 0.0675

CONF= W1B1V1E(0)H2F(1,0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0097	0.0375	-0.0052	-0.0000	-0.0015	0.0005	0.2596
2	2.01	-0.00	0.1096	0.0394	-0.0555	-0.0031	-0.0010	0.0013	2.7815
3	4.03	-0.00	0.2119	0.0415	-0.1077	-0.0008	-0.0014	0.0002	5.0987
4	5.86	-0.00	0.3197	0.0599	-0.1625	-0.0040	-0.0016	0.0010	5.3290
5	7.99	-0.00	0.4367	0.0725	-0.2211	-0.0071	-0.0007	0.0017	6.0226
6	10.01	-0.00	0.5415	0.0977	-0.2759	-0.0021	-0.0012	0.0011	5.5399
7	12.01	-0.00	0.6351	0.1352	-0.3256	0.0001	-0.0016	0.0007	4.6945
8	14.00	-0.00	0.7224	0.1781	-0.3736	-0.0029	-0.0002	0.0017	4.0545
9	16.03	-0.00	0.7665	0.2331	-0.4040	0.0050	-0.0007	-0.0000	3.2872
10	18.01	-0.00	0.7979	0.2800	-0.4229	0.0021	-0.0025	0.0018	2.8491
11	20.10	-0.00	0.7945	0.3239	-0.4256	0.0023	0.0012	-0.0006	2.4524
12	22.03	-0.00	0.7545	0.3641	-0.4126	-0.0109	0.0059	0.0012	2.0721
13	23.97	-0.00	0.7535	0.3923	-0.4167	-0.0005	-0.0035	0.0039	1.9206
14	25.97	-0.00	0.7617	0.4319	-0.4266	-0.0111	0.0052	0.0030	1.7636
15	28.01	-0.00	0.7478	0.4649	-0.4210	-0.0029	0.0020	0.0038	1.6084
16	0.00	0.00	0.0119	0.0375	-0.0053	-0.0054	-0.0014	0.0012	0.3176

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 75
QPSF = 6.60

RUN NO. 75

TEMP = 102.
RH/FTX10-6 = 0.440464

VEL-FPS = 76.300

PU = 14.3615
MACH = 0.0682

CONF = W1B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0288	0.0282	-0.0208	-0.0056	-0.0014	0.0013	1.015
2	2.01	-0.00	0.1270	0.0330	-0.0654	-0.0086	-0.0009	0.0020	3.838
3	4.03	-0.00	0.2271	0.0403	-0.1138	-0.0063	-0.0012	0.0015	5.631
4	5.86	-0.00	0.3169	0.0455	-0.1575	-0.0094	-0.0014	0.0022	6.957
5	7.99	-0.00	0.4280	0.0664	-0.2114	-0.0071	-0.0014	0.0017	6.438
6	10.01	-0.00	0.5355	0.0965	-0.2638	-0.0047	-0.0011	0.0012	5.545
7	12.01	-0.00	0.6270	0.1334	-0.3133	-0.0078	-0.0006	0.0018	4.698
8	14.00	-0.00	0.7086	0.1770	-0.3587	-0.0027	-0.0002	0.0005	4.003
9	16.03	-0.00	0.7670	0.2283	-0.3991	-0.0056	0.0027	0.0009	3.355
10	18.01	-0.00	0.7787	0.2762	-0.4131	-0.0086	-0.0003	0.0026	2.819
11	20.10	-0.00	0.8152	0.3266	-0.4372	-0.0060	0.0012	0.0008	2.495
12	22.03	-0.00	0.7914	0.3641	-0.4343	-0.0113	0.0035	0.0017	2.173
13	23.97	-0.00	0.7767	0.3899	-0.4314	-0.0086	0.0012	0.0020	1.991
14	25.97	-0.00	0.7605	0.4287	-0.4301	-0.0275	0.0066	0.0060	1.773
15	28.01	-0.00	0.7786	0.4790	-0.4534	-0.0167	0.0062	0.0014	1.625
16	0.00	0.00	0.0342	0.0306	-0.0222	-0.0083	-0.0014	0.0019	1.117

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 76

TEMP = 102.
RN/FTX10-6 = 0.440543

VEL-FPS = 76.286

PO = 14.3615
MACH = 0.0682

CONF = W1B1V1E (0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0320	0.0329	-0.0221	-0.0056	-0.0007	0.0023	0.9724
2	0.00	-6.00	0.0388	0.0258	-0.0286	0.1008	0.0036	-0.0238	1.5057
3	0.00	-4.00	0.0323	0.0305	-0.0245	0.0708	0.0020	-0.0168	1.0544
4	0.00	-2.00	0.0300	0.0305	-0.0219	0.0298	0.0006	-0.0074	0.9838
5	0.00	0.00	0.0310	0.0329	-0.0216	-0.0001	-0.0012	0.0006	0.9402
6	-0.00	1.99	0.0329	0.0306	-0.0230	-0.0275	-0.0031	0.0085	1.0740
7	-0.00	3.99	0.0359	0.0284	-0.0268	-0.0685	-0.0045	0.0180	1.2620
8	-0.00	5.99	0.0388	0.0262	-0.0315	-0.0959	-0.0061	0.0248	1.4818
9	0.00	0.00	0.0309	0.0306	-0.0219	-0.0056	-0.0011	0.0018	1.0108

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PAGE NO. 115

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 77

TEMP = 104.
RN/FTX10-6= 0.438486

VEL-FPS= 76.433

PO= 14.3615
MACH= 0.0683

CONF= W1B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5378	0.0898	-0.2636	-0.0047	-0.0012	0.0012	5.9863
2	10.01	-6.00	0.5460	0.0887	-0.2713	0.0991	0.0039	-0.0241	6.1518
3	10.01	-4.00	0.5406	0.0878	-0.2671	0.0608	0.0025	-0.0159	6.1840
4	10.01	-2.00	0.5436	0.0955	-0.2671	0.0389	-0.0003	-0.0092	5.6888
5	10.01	-0.00	0.5409	0.0975	-0.2656	-0.0020	-0.0012	0.0011	5.5463
6	10.01	1.99	0.5452	0.0960	-0.2694	-0.0404	-0.0025	0.0114	5.6779
7	10.01	3.99	0.5439	0.0958	-0.2712	-0.0678	-0.0048	0.0172	5.6726
8	10.01	5.99	0.5482	0.0943	-0.2760	-0.1007	-0.0063	0.0252	5.6089
9	10.01	-0.00	0.5434	0.0955	-0.2671	0.0033	-0.0011	0.0003	5.6842

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 78

TEMP = 106.
RN/FTX10-6 = 0.436493

VEL-FPS = 76.571

PO = 14.3615
MACH = 0.0685

CONF = W1B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	0.8002	0.3236	-0.4306	-0.0032	-0.0003	0.0024	2.4725
2	20.10	-6.00	0.8415	0.3212	-0.4497	0.0815	0.0033	-0.0128	2.6195
3	20.10	-4.00	0.8219	0.3240	-0.4436	0.0568	0.0011	-0.0082	2.5361
4	20.10	-2.00	0.8162	0.3270	-0.4397	0.0349	-0.0003	-0.0034	2.4961
5	20.10	-0.00	0.8073	0.3262	-0.4358	0.0049	0.0020	-0.0004	2.4745
6	20.09	1.99	0.8118	0.3230	-0.4358	-0.0226	-0.0026	0.0052	2.5133
7	20.09	3.99	0.8173	0.3226	-0.4431	-0.0528	-0.0037	0.0107	2.5330
8	20.09	5.99	0.8406	0.3213	-0.4542	-0.0800	0.0027	0.0127	2.5162
9	20.10	-0.00	0.8151	0.3266	-0.4386	0.0020	-0.0023	0.0013	2.4952

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 75
QPSF = 6.60

RUN NO. 79

TEMP = 104.
RN/FTX10-6 = 0.438486

VEL-FPS = 76.433

PD = 14.3615
MACH = 0.0683

CONF = W1B1V1E(-10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2156	0.0335	0.1731	-0.0092	-0.0006	0.0021	-6.420
2	2.01	-0.00	-0.1177	0.0344	0.1259	-0.0041	-0.0009	0.0010	-3.413
3	4.03	-0.00	-0.0193	0.0283	0.0802	-0.0153	-0.0006	0.0025	-0.681
4	5.86	-0.00	0.0727	0.0304	0.0376	-0.0130	-0.0009	0.0020	2.387
5	7.99	-0.00	0.1807	0.0465	-0.0151	-0.0079	-0.0006	0.0019	3.625
6	10.01	-0.00	0.2893	0.0608	-0.0658	-0.0056	-0.0013	0.0014	4.757
7	12.01	-0.00	0.3905	0.0909	-0.1212	-0.0060	-0.0006	0.0014	4.294
8	14.00	-0.00	0.4890	0.1229	-0.1743	-0.0009	-0.0005	0.0002	3.976
9	16.03	-0.00	0.5658	0.1713	-0.2253	-0.0068	0.0010	0.0017	3.301
10	18.01	-0.00	0.6156	0.2192	-0.2639	-0.0044	-0.0001	0.0009	2.807
11	20.10	-0.00	0.6610	0.2639	-0.2930	0.0062	-0.0014	-0.0011	2.505
12	22.03	-0.00	0.6452	0.2986	-0.2980	-0.0101	0.0014	0.0035	2.160
13	23.97	-0.00	0.6515	0.3252	-0.3030	-0.0234	0.0104	0.0015	2.003
14	25.97	-0.00	0.6259	0.3567	-0.2981	0.0115	-0.0045	0.0033	1.754
15	28.01	-0.00	0.6431	0.3950	-0.3170	-0.0049	-0.0019	0.0027	1.628
16	0.00	0.00	-0.2135	0.0336	0.1716	-0.0147	-0.0012	0.0023	-6.351

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 75
CPSF = 6.60

RUN NO. 80

TEMP = 104.
RN/FTX10-6= 0.438675

VEL-FPS= 76.400

PO= 14.3713
MACH= 0.0683

CONF= W1B1V1E(10)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2765	0.0511	-0.2178	0.0006	-0.0025	-0.0001	5.4119
2	2.01	-0.00	0.3749	0.0599	-0.2643	0.0003	-0.0024	0.0010	6.2524
3	4.03	-0.00	0.4733	0.0688	-0.3128	-0.0028	-0.0024	0.0007	6.8759
4	5.86	-0.00	0.5759	0.0857	-0.3604	-0.0004	-0.0027	0.0008	6.7113
5	7.99	-0.00	0.6827	0.1182	-0.4165	-0.0035	-0.0016	0.0009	5.7723
6	10.01	-0.00	0.7815	0.1584	-0.4652	-0.0012	-0.0019	0.0010	4.9314
7	12.01	-0.00	0.8644	0.1977	-0.5094	0.0011	-0.0020	0.0005	4.3721
8	14.00	-0.00	0.9054	0.2518	-0.5352	0.0036	-0.0029	0.0008	3.5554
9	16.03	-0.00	0.9336	0.3045	-0.5563	-0.0018	0.0002	0.0018	3.0651
10	18.01	-0.00	0.9484	0.3550	-0.5692	0.0033	-0.0053	0.0019	2.6714
11	20.10	-0.00	0.9241	0.3976	-0.5592	-0.0017	0.0011	0.0026	2.3240
12	22.03	-0.00	0.8545	0.4209	-0.5211	-0.0095	0.0007	0.0036	2.0402
13	23.97	-0.00	0.8622	0.4546	-0.5338	-0.0069	0.0003	0.0049	1.8964
14	25.97	-0.00	0.8671	0.5078	-0.5428	-0.0256	0.0108	0.0040	1.7074
15	28.01	-0.00	0.8650	0.5578	-0.5552	0.0094	0.0011	-0.0002	1.5507
16	0.00	0.00	0.2776	0.0511	-0.2179	-0.0048	-0.0024	0.0011	5.4322

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 81
QPSF = 6.60

RUN NO. 81

TEMP = 102.
RN/FTX10-6= 0.440653

VEL-FPS= 76.267

PO= 14.3713
NACH= 0.0682

CONF= W1B1V1E(10)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2721	0.0511	-0.2179	0.0006	-0.0022	0.0003	5.3249
2	2.01	-0.00	0.3683	0.0619	-0.2531	0.0031	-0.0018	-0.0001	5.9512
3	4.03	-0.00	0.4747	0.0781	-0.2932	-0.0052	-0.0016	0.0007	6.0784
4	5.86	-0.00	0.5830	0.0955	-0.3309	0.0027	-0.0018	-0.0010	6.1041
5	7.99	-0.00	0.7020	0.1299	-0.3739	0.0052	-0.0015	-0.0011	5.4041
6	10.01	-0.00	0.8096	0.1722	-0.4112	0.0022	-0.0012	-0.0015	4.7002
7	12.01	-0.00	0.9092	0.2183	-0.4460	0.0020	-0.0017	-0.0008	4.1631
8	14.00	-0.00	0.9886	0.2764	-0.4692	-0.0007	-0.0021	-0.0000	3.5760
9	16.03	-0.00	1.0398	0.3387	-0.4795	-0.0006	-0.0017	-0.0001	3.0690
10	18.01	-0.00	1.0871	0.3964	-0.4889	0.0020	-0.0022	0.0005	2.7423
11	20.10	-0.00	1.1211	0.4585	-0.4879	0.0050	-0.0010	0.0006	2.4452
12	22.03	-0.00	1.1237	0.5135	-0.4703	0.0104	-0.0074	0.0042	2.1884
13	23.97	-0.00	1.1395	0.5662	-0.4571	0.0134	-0.0078	0.0033	2.0120
14	25.97	-0.00	1.1092	0.6186	-0.4298	-0.0075	0.0032	0.0036	1.7920
15	28.01	-0.00	1.1301	0.6808	-0.4343	0.0032	-0.0004	0.0051	1.6594
16	0.00	0.00	0.2776	0.0534	-0.2175	-0.0020	-0.0025	0.0004	5.1957

REPORT NO. LSWT 422
PAGE NO. 120

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 81
QPSF = 6.60

RUN NO. 82

TEMP = 102.
RN/FTX10-6= 0.440622

VEL-FPS= 76.273

PO= 14.3713
MACH= 0.0682

CONF= W1B1V1E(-10)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2234	0.0336	0.1723	-0.0010	-0.0011	0.0008	-6.6477
2	2.01	-0.00	-0.1227	0.0295	0.1344	-0.0094	-0.0008	0.0017	-4.1517
3	4.03	-0.00	-0.0211	0.0350	0.0969	-0.0097	-0.0011	0.0012	-0.5045
4	5.86	-0.00	0.0763	0.0305	0.0659	-0.0017	-0.0009	0.0004	2.5024
5	7.99	-0.00	0.2022	0.0490	0.0253	-0.0073	-0.0006	0.0012	4.1242
6	10.01	-0.00	0.3136	0.0644	-0.0106	-0.0048	-0.0003	0.0005	4.8678
7	12.01	-0.00	0.4265	0.0953	-0.0531	-0.0023	-0.0007	0.0000	4.4728
8	14.00	-0.00	0.5377	0.1388	-0.0931	0.0001	-0.0008	-0.0005	3.8712
9	16.03	-0.00	0.6342	0.1848	-0.1269	-0.0000	-0.0012	0.0002	3.4304
10	18.01	-0.00	0.7308	0.2430	-0.1644	-0.0056	0.0003	0.0016	3.0071
11	20.10	-0.00	0.7994	0.3005	-0.1842	-0.0002	-0.0006	0.0023	2.6602
12	22.03	-0.00	0.8456	0.3528	-0.1968	-0.0003	-0.0012	0.0032	2.3967
13	23.97	-0.00	0.8815	0.4079	-0.1995	-0.0028	0.0004	0.0032	2.1611
14	25.97	-0.00	0.9061	0.4653	-0.2070	0.0001	0.0049	-0.0039	1.9472
15	28.01	-0.00	0.9428	0.5285	-0.2181	0.0000	0.0032	0.0021	1.7837
16	0.00	0.00	-0.2093	0.0383	0.1673	-0.0066	-0.0020	0.0010	-5.4601

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PAGE NO. 121

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 81
QPSF = 6.60

RUN NO. 83

TEMP = 103.
RN/FTX10-6= 0.439781

VEL-FPS= 76.313

PO= 14.3811
MACH= 0.0682

CONF= W1B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0265	0.0283	-0.0225	-0.0084	-0.0014	0.0025	0.9364
2	2.01	-0.00	0.1230	0.0305	-0.0581	-0.0058	-0.0007	0.0008	4.0303
3	4.03	-0.00	0.2269	0.0401	-0.0956	-0.0060	-0.0005	0.0014	5.6366
4	5.86	-0.00	0.3332	0.0492	-0.1321	-0.0008	-0.0010	0.0002	6.7571
5	7.99	-0.00	0.4496	0.0689	-0.1699	-0.0037	-0.0002	0.0002	6.5172
6	10.01	-0.00	0.5637	0.1032	-0.2098	-0.0012	-0.0009	-0.0002	5.4696
7	12.01	-0.00	0.6689	0.1415	-0.2482	-0.0015	-0.0012	-0.0000	4.7262
8	14.00	-0.00	0.7715	0.1941	-0.2826	-0.0043	-0.0003	0.0003	3.9751
9	16.03	-0.00	0.8451	0.2471	-0.3053	-0.0044	-0.0002	0.0003	3.4197
10	18.01	-0.00	0.9339	0.3156	-0.3403	-0.0018	-0.0004	0.0015	2.9567
11	20.10	-0.00	0.9726	0.3703	-0.3435	0.0009	0.0003	0.0005	2.6201
12	22.03	-0.00	0.9970	0.4255	-0.3389	0.0010	-0.0011	0.0028	2.3428
13	23.97	-0.00	1.0353	0.4853	-0.3414	-0.0014	0.0008	0.0026	2.1331
14	25.97	-0.00	1.0288	0.5369	-0.3322	-0.0096	-0.0008	0.0092	1.9152
15	28.01	-0.00	1.0592	0.6050	-0.3405	-0.0065	0.0033	0.0020	1.7507
16	0.00	0.00	0.0374	0.0330	-0.0243	-0.0138	-0.0013	0.0026	1.1344

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PAGE NO. 122

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 84

TEMP = 102.
RN/FTX10-6= 0.440780

VEL-FPS= 76.245

PO= 14.3811
MACH= 0.0682

CONF= W1B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0341	0.0400	-0.0262	-0.0029	-0.0014	0.0012	0.851
2	0.00	-6.00	0.0366	0.0352	-0.0297	0.0953	0.0033	-0.0231	1.040
3	0.00	-4.00	0.0376	0.0375	-0.0275	0.0681	0.0021	-0.0151	1.002
4	0.00	-2.00	0.0365	0.0399	-0.0241	0.0298	0.0003	-0.0079	0.915
5	0.00	0.00	0.0341	0.0400	-0.0243	-0.0110	-0.0006	0.0020	0.853
6	-0.00	1.99	0.0350	0.0377	-0.0271	-0.0357	-0.0030	0.0088	0.825
7	-0.00	3.99	0.0353	0.0378	-0.0290	-0.0740	-0.0041	0.0182	0.948
8	-0.00	5.99	0.0442	0.0356	-0.0341	-0.1041	-0.0060	0.0257	1.242
9	0.00	0.00	0.0363	0.0400	-0.0245	-0.0138	-0.0013	0.0026	0.908

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PAGE NO. 123

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 85

TEMP = 103.
RN/FTX10-6= 0.439781

VEL-FPS= 76.313

PO= 14.3811
MACH= 0.0682

CONF= W1B1V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.5677	0.0992	-0.2109	-0.0013	-0.0017	-0.0006	5.7220
2	10.01	-6.00	0.5766	0.1006	-0.2187	0.0946	0.0078	-0.0243	5.7309
3	10.01	-4.00	0.5715	0.1045	-0.2147	0.0617	0.0047	-0.0160	5.4683
4	10.01	-2.00	0.5681	0.1039	-0.2130	0.0370	0.0016	-0.0091	5.4644
5	10.01	-0.00	0.5697	0.1067	-0.2132	-0.0013	-0.0012	0.0003	5.3386
6	10.01	1.99	0.5720	0.1048	-0.2137	-0.0369	-0.0039	0.0027	5.4565
7	10.01	3.99	0.5720	0.1026	-0.2177	-0.0781	-0.0070	0.0184	5.5751
8	10.01	5.99	0.5753	0.1009	-0.2211	-0.1083	-0.0093	0.0259	5.7012
9	10.01	-0.00	0.5718	0.1070	-0.2134	-0.0013	-0.0012	-0.0001	5.3398

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PAGE NO. 121

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 86

TEMP = 105.
RN/FTX10-6 = 0.437794

VEL-FPS = 76.448

PO = 14.3811
MACH = 0.0684

CONF = WIBIVIE(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	0.9685	0.3788	-0.3414	0.0009	-0.0001	0.0018	2.5557
2	20.10	-6.00	0.9969	0.3818	-0.3671	0.0880	-0.0061	-0.0104	2.6107
3	20.10	-4.00	0.9922	0.3851	-0.3628	0.0498	-0.0038	-0.0030	2.5752
4	20.10	-2.00	0.9645	0.3798	-0.3445	0.0281	-0.0030	-0.0008	2.5391
5	20.10	-0.00	0.9703	0.3795	-0.3462	-0.0045	-0.0008	0.0028	2.5565
6	20.09	1.99	0.9842	0.3822	-0.3537	-0.0344	0.0053	0.0038	2.5750
7	20.09	3.99	0.9859	0.3829	-0.3589	-0.0618	0.0066	0.0061	2.5746
8	20.09	5.99	0.9892	0.3792	-0.3654	-0.0891	0.0089	0.0102	2.6032
9	20.10	-0.00	0.9772	0.3796	-0.3489	-0.0072	0.0008	0.0006	2.5744

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VSD LOW-SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 87
QPSF = 6.60

RUN NO. 87

TEMP = 101.
RN/FTX10-6= 0.441973

VEL-FPS= 76.145

PO= 14.3909
MACH= 0.0681

CONF= W1B1V1E(0)GC3

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0242	0.0330	-0.0239	-0.0056	-0.0008	0.0007	0.7358
2	2.01	-0.00	0.1261	0.0353	-0.0598	-0.0031	-0.0010	0.0007	3.5694
3	4.03	-0.00	0.2364	0.0431	-0.1010	-0.0088	-0.0005	0.0015	5.4749
4	5.86	-0.00	0.3339	0.0517	-0.1365	-0.0009	-0.0014	-0.0002	6.4564
5	7.99	-0.00	0.4453	0.0732	-0.1778	-0.0011	-0.0010	-0.0002	6.0829
6	10.01	-0.00	0.5676	0.1040	-0.2209	-0.0041	-0.0010	-0.0006	5.4543
7	12.01	-0.00	0.6732	0.1449	-0.2598	-0.0043	-0.0005	-0.0001	4.6439
8	14.00	-0.00	0.7714	0.1918	-0.2975	0.0008	-0.0013	-0.0017	4.0216
9	16.03	-0.00	0.8467	0.2502	-0.3261	-0.0047	-0.0008	-0.0005	3.3852
10	18.01	-0.00	0.9146	0.3095	-0.3510	0.0060	-0.0015	-0.0012	2.9549
11	20.10	-0.00	0.9649	0.3727	-0.3642	-0.0018	0.0039	-0.0024	2.5885
12	22.03	-0.00	0.9957	0.4279	-0.3713	0.0033	-0.0021	-0.0002	2.5247
13	23.97	-0.00	1.0063	0.4856	-0.3685	-0.0043	0.0054	-0.0052	2.0722
14	25.97	-0.00	0.9776	0.5252	-0.3476	0.0037	-0.0021	-0.0013	1.8613
15	28.01	-0.00	1.0447	0.6057	-0.3749	0.0009	-0.0009	-0.0019	1.7247
16	0.00	0.00	0.0320	0.0306	-0.0234	-0.0056	-0.0011	0.0007	1.0444

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 88
QPSF = 6.60

RUN NO. 88

TEMP = 99.
RN/FTX10-6= 0.444118

VEL-FPS= 75.987

PO= 14.4008
MACH= 0.0679

CONF= W1B1VLE(0)GC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0232	0.0306	-0.0209	-0.0083	-0.0014	0.0019	0.7601
2	2.01	-0.00	0.1263	0.0329	-0.0570	0.0050	-0.0012	0.0004	3.2344
3	4.03	-0.00	0.2334	0.0428	-0.0934	-0.0006	-0.0014	-0.0003	5.4445
4	5.86	-0.00	0.3312	0.0512	-0.1237	0.0046	-0.0012	-0.0010	6.4580
5	7.99	-0.00	0.4569	0.0746	-0.1646	-0.0009	-0.0010	-0.0008	6.1191
6	10.01	-0.00	0.5667	0.1013	-0.2006	-0.0066	-0.0011	-0.0000	5.5939
7	12.01	-0.00	0.6787	0.1458	-0.2359	0.0041	-0.0007	-0.0009	4.6539
8	14.00	-0.00	0.7825	0.1894	-0.2667	-0.0041	0.0000	-0.0009	4.1313
9	16.03	-0.00	0.8515	0.2512	-0.2900	-0.0014	0.0004	-0.0011	3.3898
10	18.01	-0.00	0.9305	0.3092	-0.3098	-0.0016	-0.0023	0.0009	3.0085
11	20.10	-0.00	0.9926	0.3824	-0.3247	-0.0041	0.0005	0.0005	2.5957
12	22.03	-0.00	1.0231	0.4307	-0.3206	-0.0065	0.0046	0.0005	2.3751
13	23.97	-0.00	1.0426	0.4882	-0.3144	-0.0092	0.0012	0.0038	2.1353
14	25.97	-0.00	1.0151	0.5323	-0.2849	0.0070	-0.0076	0.0077	1.9071
15	28.01	-0.00	1.0678	0.6117	-0.2983	-0.0034	0.0006	0.0026	1.7456
16	0.00	0.00	0.0331	0.0329	-0.0231	-0.0083	-0.0014	0.0014	1.0038

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 89
QPSF = 6.60

RUN NO. 89

TEMP = 90.
RN/FTX10-6= 0.453868

VEL-FPS= 75.295

PD= 14.4302
MACH= 0.0673

CONF= B1V1GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.0164	0.0257	0.0003	0.0000	-0.0005	0.0016	-0.6392
2	2.01	-0.00	-0.0036	0.0231	0.0106	-0.0025	-0.0007	0.0017	-0.1566
3	4.03	-0.00	0.0135	0.0264	0.0223	0.0003	-0.0004	0.0010	0.5115
4	5.86	-0.00	0.0303	0.0215	0.0344	0.0005	-0.0003	0.0009	1.4134
5	7.99	-0.00	0.0489	0.0322	0.0485	0.0035	-0.0000	0.0002	1.5185
6	10.01	-0.00	0.0774	0.0342	0.0620	-0.0017	0.0001	0.0008	2.2527
7	12.01	-0.00	0.1021	0.0446	0.0754	-0.0014	0.0002	0.0008	2.2902
8	14.00	-0.00	0.1322	0.0605	0.0901	-0.0011	0.0005	0.0012	2.1317
9	16.03	-0.00	0.1567	0.0702	0.1046	-0.0009	0.0004	0.0017	2.2300
10	18.01	-0.00	0.1813	0.0819	0.1215	-0.0033	0.0007	0.0022	2.2193
11	20.10	-0.00	0.2138	0.1035	0.1362	-0.0030	0.0012	0.0019	2.0647
12	22.03	-0.00	0.2353	0.1181	0.1512	-0.0032	0.0018	0.0029	1.9920
13	23.97	-0.00	0.2678	0.1421	0.1595	-0.0026	0.0015	0.0028	1.8854
14	25.97	-0.00	0.2949	0.1643	0.1716	-0.0024	0.0016	0.0033	1.7951
15	28.01	-0.00	0.3218	0.1840	0.1806	-0.0049	0.0020	0.0030	1.7485
16	0.00	0.00	-0.0066	0.0257	-0.0003	-0.0109	-0.0010	0.0025	-0.2566

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 90

TEMP = 90.
RN/FTX10-6 = 0.453884

VEL-FPS = 75.292

PO = 14.4302
MACH = 0.0673

CONF = B1V16C2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYN	L/D
1	0.00	0.00	-0.0131	0.0304	0.0013	-0.0054	-0.0004	0.0023	-0.4312
2	0.00	-6.00	-0.0028	0.0278	-0.0013	0.0904	0.0081	-0.0198	-0.1022
3	0.00	-4.00	-0.0095	0.0303	0.0005	0.0575	0.0052	-0.0122	-0.3147
4	0.00	-2.00	-0.0118	0.0303	0.0016	0.0438	0.0021	-0.0063	-0.3893
5	0.00	0.00	-0.0131	0.0281	0.0023	-0.0108	-0.0007	0.0030	-0.4663
6	-0.00	1.99	-0.0111	0.0281	-0.0009	-0.0273	-0.0038	0.0090	-0.3965
7	-0.00	3.99	-0.0103	0.0259	-0.0027	-0.0657	-0.0066	0.0163	-0.3965
8	-0.00	5.99	-0.0051	0.0260	-0.0063	-0.1013	-0.0091	0.0229	-0.1975
9	0.00	0.00	-0.0099	0.0281	-0.0001	-0.0136	-0.0006	0.0031	-0.3523

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 91

TEMP = 92.
RN/FTX10-6 = 0.451760

VEL-FPS = 75.434

PO = 14.4302
MACH = 0.0674

CONF = BLV1GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.0774	0.0342	0.0625	-0.0071	0.0003	0.0015	2.2625
2	10.01	-6.00	0.0941	0.0346	0.0528	0.0940	0.0042	-0.0195	2.7176
3	10.01	-4.00	0.0866	0.0333	0.0585	0.0667	0.0028	-0.0129	2.5999
4	10.01	-2.00	0.0814	0.0372	0.0616	0.0229	0.0013	-0.0056	2.1879
5	10.01	-0.00	0.0769	0.0365	0.0615	-0.0071	0.0000	0.0016	2.1069
6	10.01	1.99	0.0814	0.0350	0.0608	-0.0427	-0.0008	0.0090	2.3267
7	10.01	3.99	0.0869	0.0337	0.0559	-0.0674	-0.0026	0.0157	2.5746
8	10.01	5.99	0.0919	0.0347	0.0500	-0.1003	-0.0040	0.0226	2.6467
9	10.01	-0.00	0.0812	0.0372	0.0611	-0.0071	0.0003	0.0010	2.1802

REPORT NO. LSMT 422
PAGE NO. 130

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 92

TEMP = 92.
RN/FTX10-6 = 0.451696

VEL-FPS = 75.445

PO = 14.4302
MACH = 0.0675

CONF = B1V1GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	0.2117	0.1028	0.1350	-0.0112	0.0015	0.0026	2.0559
2	20.10	-6.00	0.2297	0.1043	0.1225	0.0871	0.0028	-0.0110	2.2623
3	20.10	-4.00	0.2180	0.1050	0.1307	0.0570	0.0010	-0.0064	2.9759
4	20.10	-2.00	0.2129	0.1031	0.1348	0.0297	0.0006	-0.0030	2.6855
5	20.10	-0.00	0.2086	0.1017	0.1357	-0.0140	0.0016	0.0027	2.9515
6	20.09	1.99	0.2107	0.1050	0.1340	-0.0414	0.0012	0.0062	2.9081
7	20.09	3.99	0.2173	0.1025	0.1314	-0.0688	0.0006	0.0102	2.1189
8	20.09	5.99	0.2288	0.1019	0.1238	-0.0908	-0.0005	0.0138	2.2451
9	20.10	-0.00	0.2127	0.1032	0.1349	-0.0140	0.0016	0.0027	2.6612

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PAGE NO. 131

VSD LOW-SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 93

TEMP = 96.
RN/FTX10-6= 0.447576

VEL-FPS= 75.715

PD= 14.4302
MACH= 0.0677

CONF= B1V1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.0119	0.0233	0.0033	-0.0026	-0.0005	0.0017	-0.5163
2	0.00	-6.00	-0.0039	0.0209	-0.0024	0.0985	0.0083	-0.0217	-0.1907
3	0.00	-4.00	-0.0116	0.0232	0.0018	0.0657	0.0054	-0.0141	-0.5012
4	0.00	-2.00	-0.0117	0.0233	0.0028	0.0301	0.0026	-0.0064	-0.5053
5	0.00	0.00	-0.0103	0.0233	0.0032	0.0000	-0.0005	0.0016	-0.4634
6	-0.00	1.99	-0.0099	0.0234	0.0023	-0.0328	-0.0037	0.0087	-0.4234
7	-0.00	3.99	-0.0091	0.0212	-0.0017	-0.0630	-0.0066	0.0156	-0.4323
8	-0.00	5.99	-0.0007	0.0190	-0.0055	-0.0904	-0.0096	0.0225	-0.0374
9	0.00	0.00	-0.0097	0.0233	0.0032	-0.0026	-0.0005	0.0017	-0.4163

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PAGE NO. 132

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 94

TEMP = 97.

RN/FTX10-6= 0.446536

VEL-FPS= 75.786

PO= 14.4302

MACH= 0.0678

CONF= B1V1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	10.01	-0.00	0.0306	0.0288	0.0228	0.0004	0.0001	0.0015	1.0627
2	10.01	-6.00	0.0466	0.0268	0.0133	0.0933	0.0025	-0.0190	1.7413
3	10.01	-4.00	0.0366	0.0274	0.0186	0.0660	0.0014	-0.0124	1.3350
4	10.01	-2.00	0.0343	0.0271	0.0207	0.0222	0.0009	-0.0054	1.2679
5	10.01	-0.00	0.0327	0.0292	0.0222	-0.0105	0.0003	0.0018	1.1206
6	10.01	1.99	0.0351	0.0273	0.0203	-0.0379	-0.0008	0.0079	1.2631
7	10.01	3.99	0.0395	0.0258	0.0173	-0.0625	-0.0017	0.0144	1.5305
8	10.01	5.99	0.0450	0.0245	0.0119	-0.0872	-0.0023	0.0203	1.8340
9	10.01	-0.00	0.0289	0.0261	0.0235	0.0004	-0.0002	0.0015	1.1053

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 95

TEMP = 99.
RN/FTX10-6 = 0.444532

VEL-FPS = 75.916

PO = 14.4302
MACH = 0.0679

CONF = 81V1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	20.10	-0.00	0.0895	0.0645	0.0342	-0.0046	0.0010	0.0024	1.586
2	20.10	-6.00	0.1035	0.0645	0.0253	0.0908	-0.0021	-0.0146	1.603
3	20.10	-4.00	0.0963	0.0619	0.0292	0.0663	-0.0012	-0.0101	1.555
4	20.10	-2.00	0.0906	0.0648	0.0332	0.0308	-0.0001	-0.0040	1.546
5	20.10	-0.00	0.0894	0.0645	0.0342	-0.0156	0.0014	0.0032	1.586
6	20.09	1.99	0.0893	0.0645	0.0338	-0.0429	0.0022	0.0091	1.583
7	20.09	3.99	0.0947	0.0616	0.0309	-0.0730	0.0029	0.0145	1.537
8	20.09	5.99	0.1034	0.0624	0.0252	-0.1004	0.0037	0.0186	1.656
9	20.10	-0.00	0.0888	0.0693	0.0335	-0.0101	0.0011	0.0026	1.282

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PAGE NO. 131

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 96
QPSF = 6.60

RUN NO. 96

TEMP = 100.

RN/FTX10-6= 0.443504

VEL-FPS= 75.987

PO= 14.4302
MACH= 0.0679

CONF= B1V1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.0075	0.0210	0.0031	-0.0054	-0.0005	0.0012	-0.3585
2	2.01	-0.00	-0.0036	0.0185	0.0070	-0.0053	-0.0001	0.0017	-0.1955
3	4.03	-0.00	0.0090	0.0192	0.0098	-0.0052	-0.0000	0.0017	0.4686
4	5.86	-0.00	0.0138	0.0224	0.0145	-0.0052	-0.0002	0.0017	0.6187
5	7.99	-0.00	0.0219	0.0241	0.0180	-0.0051	-0.0001	0.0017	0.9092
6	10.01	-0.00	0.0342	0.0271	0.0212	-0.0050	0.0002	0.0016	1.2618
7	12.01	-0.00	0.0452	0.0308	0.0246	-0.0049	-0.0000	0.0017	1.4697
8	14.00	-0.00	0.0523	0.0367	0.0276	-0.0103	0.0004	0.0029	1.4231
9	16.03	-0.00	0.0680	0.0434	0.0300	-0.0048	0.0002	0.0021	1.5672
10	18.01	-0.00	0.0791	0.0498	0.0323	-0.0102	0.0003	0.0033	1.5890
11	20.10	-0.00	0.0931	0.0608	0.0342	-0.0101	0.0010	0.0032	1.5296
12	22.03	-0.00	0.1014	0.0681	0.0376	-0.0128	0.0011	0.0032	1.4682
13	23.97	-0.00	0.1152	0.0786	0.0396	-0.0100	0.0012	0.0031	1.4646
14	25.97	-0.00	0.1234	0.0905	0.0432	-0.0099	0.0014	0.0024	1.3553
15	28.01	-0.00	0.1340	0.0995	0.0460	-0.0125	0.0018	0.0028	1.3463
16	0.00	0.00	-0.0075	0.0210	0.0026	-0.0054	-0.0005	0.0012	-0.3594

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 97

QPSF = 6.60

RUN NO. 97

TEMP = 80.

RN/FTX10-6= 0.466574

VEL-FPS= 74.288

PO= 14.5628

MACH= 0.0664

CONF= W2B1V1E(0)

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.0256	0.0352	-0.0194	0.0025	-0.0012	0.0010	0.7256
2	2.01	-0.00	0.1206	0.0328	-0.0608	0.0050	-0.0012	0.0005	3.6784
3	4.03	-0.00	0.2254	0.0400	-0.1044	0.0074	-0.0015	-0.0000	5.6232
4	5.86	-0.00	0.3340	0.0542	-0.1525	0.0016	-0.0010	0.0007	6.1570
5	7.99	-0.00	0.4439	0.0756	-0.2016	0.0039	-0.0020	0.0009	5.8687
6	10.01	-0.00	0.5544	0.1068	-0.2524	-0.0046	-0.0017	0.0012	5.1875
7	12.01	-0.00	0.6564	0.1466	-0.2990	0.0059	-0.0024	0.0000	4.4761
8	14.00	-0.00	0.7614	0.1947	-0.3493	0.0056	-0.0014	-0.0000	3.9097
9	16.03	-0.00	0.8718	0.2608	-0.4086	0.0107	-0.0009	-0.0008	3.3430
10	18.01	-0.00	1.0064	0.3258	-0.4738	0.0021	0.0010	0.0005	3.0585
11	20.10	-0.00	1.1183	0.4005	-0.5228	0.0046	0.0024	-0.0006	2.7918
12	22.03	-0.00	1.1440	0.4540	-0.5212	0.0020	0.0033	-0.0004	2.5194
13	23.97	-0.00	1.0897	0.4855	-0.4814	0.0051	0.0024	-0.0009	2.2445
14	25.97	-0.00	1.0316	0.5214	-0.4540	0.0026	0.0017	-0.0018	1.9782
15	28.01	-0.00	0.9750	0.5535	-0.4261	0.0083	-0.0012	-0.0017	1.7615
16	0.00	0.00	0.0365	0.0399	-0.0217	-0.0056	-0.0010	0.0013	0.9131

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PAGE NO. 136

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
GPSF = 6.60

RUN NO. 98

TEMP = 80.

PO= 14.5628

RN/FTX10-6= 0.466557

VEL-FPS= 74.290

MACH= 0.0664

CONF= W2B1V1E(0)SC1

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	16.03	-0.00	0.8706	0.2642	-0.3157	0.0009	-0.0003	0.0013	3.2947
2	16.03	-6.00	0.8750	0.2580	-0.3209	0.1023	0.0037	-0.0248	3.5911
3	16.03	-4.00	0.8716	0.2619	-0.3167	0.0749	0.0025	-0.0173	3.3275
4	16.03	-2.00	0.8695	0.2613	-0.3132	0.0312	0.0023	-0.0084	3.3264
5	16.03	-0.00	0.8645	0.2624	-0.3105	0.0010	0.0003	0.0011	3.2941
6	16.03	1.99	0.8700	0.2617	-0.3159	-0.0346	-0.0021	0.0098	3.3241
7	16.03	3.99	0.8708	0.2620	-0.3187	-0.0621	-0.0032	0.0179	3.3231
8	16.03	5.99	0.8696	0.2569	-0.3221	-0.0841	-0.0049	0.0254	3.3846
9	16.03	-0.00	0.8686	0.2636	-0.3141	0.0037	-0.0005	0.0007	3.2945

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 99

QPSF = 6.60

RUN NO. 99

TEMP = 94.

RN/FTX10-6= 0.451601

VEL-FPS= 75.250

PD= 14.5628

MACH= 0.0673

CONF= W2B1V1E(10)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	0.2750	0.0602	-0.2030	0.0008	-0.0024	0.0008	4.5612
2	2.01	-0.00	0.3696	0.0687	-0.2301	0.0007	-0.0020	0.0004	5.3745
3	4.03	-0.00	0.4857	0.0831	-0.2628	0.0060	-0.0021	-0.0002	5.8349
4	5.86	-0.00	0.5939	0.1126	-0.2949	0.0005	-0.0018	0.0005	5.2711
5	7.99	-0.00	0.7183	0.1459	-0.3336	0.0030	-0.0021	0.0005	4.9235
6	10.01	-0.00	0.8220	0.1905	-0.3632	0.0002	-0.0015	0.0011	4.3148
7	12.01	-0.00	0.9291	0.2363	-0.3953	0.0055	-0.0021	0.0000	3.9309
8	14.00	-0.00	1.0169	0.2949	-0.4233	0.0082	-0.0009	-0.0008	3.4477
9	16.03	-0.00	1.1201	0.3662	-0.4573	0.0053	-0.0003	-0.0003	3.0580
10	18.01	-0.00	1.2163	0.4431	-0.4958	0.0051	-0.0009	0.0016	2.7467
11	20.10	-0.00	1.3188	0.5235	-0.5393	0.0022	0.0004	0.0012	2.5190
12	22.03	-0.00	1.3984	0.6126	-0.5693	-0.0006	-0.0000	0.0021	2.2828
13	23.97	-0.00	1.4380	0.6868	-0.5766	0.0048	-0.0001	0.0008	2.0954
14	25.97	-0.00	1.4428	0.7533	-0.5571	0.0108	0.0021	-0.0006	1.9151
15	28.01	-0.00	1.4132	0.8107	-0.5266	0.0083	-0.0009	-0.0002	1.7431
16	0.00	0.00	0.2782	0.0603	-0.2051	-0.0046	-0.0024	0.0016	4.6120

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 99
QPSF = 6.60

RUN NO. 100

TEMP = 94.
RN/FTX10-6= 0.451665

VEL-FPS= 75.239

PD= 14.5628
MACH= 0.0673

CONF= W1B1V1E(-10)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	0.00	0.00	-0.2211	0.0335	0.1731	0.0017	-0.0004	0.0012	-6.5859
2	2.01	-0.00	-0.1244	0.0316	0.1466	0.0016	-0.0006	0.0013	-3.9263
3	4.03	-0.00	-0.0146	0.0352	0.1193	-0.0012	-0.0005	0.0008	-0.4155
4	5.86	-0.00	0.0893	0.0456	0.0943	0.0014	-0.0007	0.0003	1.9600
5	7.99	-0.00	0.2070	0.0516	0.0622	0.0013	-0.0004	0.0002	4.0094
6	10.01	-0.00	0.3216	0.0796	0.0274	0.0011	-0.0009	0.0009	4.0384
7	12.01	-0.00	0.4476	0.1113	-0.0117	-0.0044	-0.0002	0.0015	4.0218
8	14.00	-0.00	0.5626	0.1517	-0.0504	0.0007	-0.0002	0.0013	3.7065
9	16.03	-0.00	0.6747	0.2057	-0.0888	0.0033	-0.0007	0.0014	3.2798
10	18.01	-0.00	0.7823	0.2641	-0.1312	0.0003	0.0003	0.0012	2.9512
11	20.10	-0.00	0.8905	0.3285	-0.1751	0.0055	0.0001	0.0006	2.7106
12	22.03	-0.00	0.9925	0.4020	-0.2134	0.0081	-0.0000	0.0000	2.4658
13	23.97	-0.00	1.0775	0.4746	-0.2439	0.0025	0.0001	0.0007	2.2700
14	25.97	-0.00	1.1514	0.5512	-0.2674	0.0105	-0.0013	0.0000	2.0857
15	28.01	-0.00	1.2044	0.6308	-0.2824	0.0106	-0.0003	-0.0017	1.9092
16	0.00	0.00	-0.2060	0.0383	0.1666	-0.0065	-0.0006	0.0015	-5.3760

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 99

QPSF = 6.60

RUN NO. 101

TEMP = 94.

RN/FTX10-6= 0.451553

VEL-FPS= 75.258

PG= 14.5628

MACH= 0.0673

CONF= WIB1VIE(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	-0.00	1.99	0.0288	0.0282	-0.0160	-0.0301	-0.0027	0.0091	1.0213
2	2.01	1.99	0.1246	0.0351	-0.0405	-0.0330	-0.0033	0.0093	3.5478
3	4.02	1.99	0.2387	0.0430	-0.0712	-0.0304	-0.0033	0.0088	5.5445
4	5.86	1.99	0.3454	0.0619	-0.1002	-0.0414	-0.0036	0.0104	5.5740
5	7.99	1.99	0.4647	0.0825	-0.1350	-0.0307	-0.0044	0.0099	5.6277
6	10.01	1.99	0.5793	0.1198	-0.1690	-0.0309	-0.0046	0.0101	4.8337
7	12.01	1.99	0.6942	0.1584	-0.2042	-0.0338	-0.0046	0.0110	4.3823
8	13.99	1.99	0.8046	0.2139	-0.2421	-0.0312	-0.0037	0.0104	3.7610
9	16.03	1.99	0.9062	0.2740	-0.2757	-0.0286	-0.0036	0.0105	3.3071
10	18.01	1.99	1.0096	0.3423	-0.3163	-0.0315	-0.0025	0.0105	2.9459
11	20.09	1.99	1.1229	0.4179	-0.3636	-0.0264	-0.0035	0.0115	2.6870
12	22.03	1.99	1.2159	0.4993	-0.3992	-0.0293	-0.0027	0.0133	2.4381
13	23.97	1.99	1.2817	0.5724	-0.4196	-0.0320	-0.0009	0.0129	2.2392
14	25.97	1.99	1.3298	0.6554	-0.4320	-0.0399	0.0058	0.0123	2.0217
15	28.01	1.99	1.3545	0.7281	-0.4286	-0.0397	0.0066	0.0125	1.8662
16	-0.00	1.99	0.0397	0.0330	-0.0198	-0.0411	-0.0032	0.0100	1.2029

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PAGE NO. 140

VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 102

TEMP = 94.
RN/FTX10-6= 0.451585

VEL-FPS= 75.253

PO= 14.5628
MACH= 0.0673

CONF= WIB1V1E(0)SC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYN	L/D
1	16.03	-0.00	0.9079	0.2768	-0.2751	-0.0038	0.0000	0.0017	3.2793
2	16.03	-6.00	0.9024	0.2653	-0.2800	0.0948	0.0074	-0.0252	3.4003
3	16.03	-4.00	0.9052	0.2711	-0.2776	0.0592	0.0057	-0.0162	3.3392
4	16.03	-2.00	0.9066	0.2739	-0.2754	0.0344	-0.0017	-0.0084	3.3091
5	16.03	-0.00	0.9092	0.2723	-0.2745	-0.0120	0.0007	0.0024	3.3381
6	16.03	1.99	0.9120	0.2732	-0.2774	-0.0341	-0.0033	0.0112	3.3373
7	16.03	3.99	0.9144	0.2716	-0.2821	-0.0589	-0.0063	0.0192	3.3662
8	16.03	5.99	0.9129	0.2713	-0.2866	-0.0973	-0.0080	0.0267	3.3642
9	16.03	-0.00	0.9148	0.2764	-0.2760	-0.0066	-0.0008	0.0032	3.3095

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VSD LOW SPEED WIND TUNNEL TEST 422
STABILITY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 103

TEMP = 94.
RN/FTX10-6 = 0.451368

VEL-FPS = 75.289

PO = 14.5481
MACH = 0.0673

CONF = W181V1E(0)GC2

PT	ALPHA	BETA	CL	CD	CM	CY	CRM	CYM	L/D
1	16.03	-0.00	0.9188	0.2730	-0.3097	-0.0016	-0.0014	0.0005	3.3646
2	16.03	-6.00	0.9101	0.2654	-0.3095	0.0998	0.0049	-0.0274	3.4252
3	16.03	-4.00	0.9125	0.2686	-0.3078	0.0696	0.0019	-0.0187	3.3965
4	16.03	-2.00	0.9128	0.2712	-0.3065	0.0312	0.0000	-0.0094	3.3651
5	16.03	-0.00	0.9230	0.2742	-0.3110	0.0038	-0.0007	-0.0003	3.3653
6	16.03	1.99	0.9216	0.2740	-0.3131	-0.0453	-0.0001	0.0101	3.3626
7	16.03	3.99	0.9200	0.2711	-0.3128	-0.0673	-0.0024	0.0189	3.3929
8	16.03	5.99	0.9187	0.2660	-0.3166	-0.1031	-0.0056	0.0279	3.4521
9	16.03	-0.00	0.9239	0.2745	-0.3134	-0.0124	0.0013	0.0012	3.3648

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PAGE NO. 142

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 1

TEMP = 101.
RN/FTX10-6 = 0.442645

VEL-FPS = 76.029

PD = 14.4450
MACH = 0.0680

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0256	0.0352	-0.0175	-0.0083	-0.0017	0.0030
2	2.01	-0.00	0.1206	0.0426	-0.0602	-0.0031	-0.0017	0.0013
3	4.03	-0.00	0.2277	0.0265	-0.1035	-0.0034	-0.0017	0.0018
4	5.85	-0.00	0.3249	0.0174	-0.1459	0.0016	-0.0014	0.0006
5	7.99	-0.00	0.4425	0.0201	-0.1994	0.0012	-0.0014	0.0007
6	10.01	-0.00	0.5581	0.0181	-0.2485	-0.0018	-0.0019	0.0013
7	12.01	-0.00	0.6683	0.0161	-0.2958	-0.0020	-0.0012	0.0019
8	14.00	-0.00	0.7795	0.0141	-0.3445	-0.0024	-0.0015	0.0014
9	16.03	-0.00	0.8992	0.0145	-0.4028	-0.0055	0.0005	0.0021
10	18.01	-0.00	1.0514	0.0080	-0.4708	-0.0032	0.0012	0.0021
11	20.10	-0.00	1.1865	-0.0033	-0.5252	-0.0036	0.0019	0.0032
12	22.03	-0.00	1.2189	-0.0034	-0.5163	-0.0008	-0.0010	0.0026
13	23.97	-0.00	1.1929	0.0078	-0.4844	-0.0111	0.0055	0.0033
14	25.97	-0.00	1.1417	0.0215	-0.4479	0.0029	0.0067	0.0000
15	28.01	-0.00	1.1432	0.0308	-0.4395	-0.0025	0.0018	0.0019
16	0.00	0.00	0.0375	0.0353	-0.0230	-0.0138	-0.0016	0.0032

REPORT NO. LSWT 422
PAGE NO. 113

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 2

TEMP = 105.

PO= 14.4401

RN/FTX10-6= 0.438609

VEL-FPS= 76.306

MACH= 0.0682

CONF= W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0310	0.0329	-0.0202	-0.0001	-0.0018	0.0006
2	0.00	-6.00	0.0388	0.0281	-0.0296	0.0980	0.0029	-0.0237
3	0.00	-4.00	0.0323	0.0305	-0.0231	0.0571	0.0016	-0.0148
4	0.00	-2.00	0.0323	0.0305	-0.0202	0.0298	-0.0003	-0.0079
5	0.00	0.00	0.0310	0.0329	-0.0211	-0.0029	-0.0021	0.0007
6	-0.00	1.99	0.0351	0.0307	-0.0231	-0.0384	-0.0033	0.0094
7	-0.00	3.99	0.0348	0.0284	-0.0258	-0.0685	-0.0055	0.0175
8	-0.00	5.99	0.0432	0.0262	-0.0323	-0.0987	-0.0067	0.0244
9	0.00	0.00	0.0342	0.0306	-0.0212	-0.0110	-0.0010	0.0020

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PAGE NO. 144

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 3

TEMP = 105.
RN/FTX10-6 = 0.438437

VEL-FPS = 76.336

PO = 14.4401
MACH = 0.0683

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYN
1	4.03	-0.00	0.2266	0.0171	-0.1031	-0.0008	-0.0021	0.0001
2	4.03	-6.00	0.2377	0.0123	-0.1115	0.0976	0.0057	-0.0247
3	4.03	-4.00	0.2356	0.0170	-0.1072	0.0648	0.0035	-0.0166
4	4.03	-2.00	0.2333	0.0170	-0.1041	0.0266	0.0014	-0.0078
5	4.03	-0.00	0.2353	0.0171	-0.1047	-0.0089	-0.0016	0.0020
6	4.02	1.99	0.2296	0.0172	-0.1047	-0.0336	-0.0043	0.0093
7	4.02	3.99	0.2343	0.0149	-0.1087	-0.0665	-0.0068	0.0169
8	4.02	5.99	0.2387	0.0127	-0.1149	-0.0994	-0.0094	0.0245
9	4.03	-0.00	0.2309	0.0194	-0.1040	-0.0062	-0.0017	0.0014

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PAGE NO. 145

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 4

TEMP = 107.

PO = 14.4401

RN/FTX10-6 = 0.436587

VEL-FPS = 76.449

MACH = 0.0684

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5603	0.0134	-0.2480	-0.0018	-0.0016	0.0003
2	10.01	-6.00	0.5650	0.0086	-0.2550	0.0994	0.0088	-0.0247
3	10.01	-4.00	0.5661	0.0109	-0.2509	0.0666	0.0050	-0.0171
4	10.01	-2.00	0.5616	0.0134	-0.2491	0.0255	0.0016	-0.0076
5	10.01	-0.00	0.5603	0.0134	-0.2480	-0.0017	-0.0013	0.0003
6	10.01	1.99	0.5644	0.0112	-0.2501	-0.0374	-0.0054	0.0096
7	10.01	3.99	0.5631	0.0089	-0.2522	-0.0703	-0.0086	0.0172
8	10.01	5.99	0.5692	0.0067	-0.2586	-0.1005	-0.0119	0.0231
9	10.01	-0.00	0.5636	0.0134	-0.2497	-0.0018	-0.0016	0.0003

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 5

TEMP = 107.

PO = 14.4401

RN/FTX10-6 = 0.436634

VEL-FPS = 76.441

MACH = 0.0683

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	16.03	-0.00	0.9100	0.0075	-0.4062	-0.0028	0.0001	0.0015
2	16.03	-6.00	0.9039	0.0003	-0.4066	0.1064	0.0065	-0.0242
3	16.03	-4.00	0.9039	0.0050	-0.4035	0.0764	0.0050	-0.0173
4	16.03	-2.00	0.9103	0.0051	-0.4048	0.0299	0.0023	-0.0082
5	16.03	-0.00	0.9143	0.0075	-0.4079	-0.0055	0.0005	0.0016
6	16.03	1.99	0.9119	0.0076	-0.4081	-0.0384	-0.0023	0.0108
7	16.03	3.99	0.9159	0.0030	-0.4134	-0.0739	-0.0031	0.0190
8	16.03	5.99	0.9155	0.0008	-0.4183	-0.1097	-0.0073	0.0262
9	16.03	-0.00	0.9057	0.0028	-0.4034	-0.0056	-0.0004	0.0021

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 6

TEMP = 107.
RN/FTX10-6= 0.436650

VEL-FPS= 76.438

PO= 14.4401
MACH= 0.0683

CONF= W281V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1866	-0.0103	-0.5235	-0.0117	0.0027	0.0029
2	20.10	-6.00	1.1889	-0.0198	-0.5320	0.1081	0.0045	-0.0247
3	20.10	-4.00	1.1879	-0.0174	-0.5273	0.0754	0.0023	-0.0176
4	20.10	-2.00	1.1889	-0.0127	-0.5260	0.0372	0.0019	-0.0088
5	20.10	-0.00	1.1845	-0.0103	-0.5220	-0.0144	0.0031	0.0035
6	20.09	1.99	1.1800	-0.0103	-0.5188	-0.0471	0.0022	0.0122
7	20.09	3.99	1.1787	-0.0149	-0.5199	-0.0854	0.0004	0.0215
8	20.09	5.99	1.1890	-0.0171	-0.5313	-0.1183	-0.0003	0.0281
9	20.10	-0.00	1.1899	-0.0103	-0.5247	-0.0090	0.0030	0.0028

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 7

TEMP = 87.

PO = 14.4401

RN/FTX10-6 = 0.457119

VEL-FPS = 75.076

MACH = 0.0671

CONF = W2B1V1E(-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2259	0.0454	0.1646	-0.0093	-0.0003	0.0022
2	2.01	-0.00	-0.1239	0.0409	0.1311	-0.0067	-0.0009	0.0016
3	4.03	-0.00	-0.0179	0.0271	0.0887	-0.0071	-0.0009	0.0016
4	5.86	-0.00	0.0803	0.0227	0.0476	-0.0073	-0.0009	0.0022
5	7.99	-0.00	0.1873	0.0183	0.0020	-0.0022	-0.0006	0.0004
6	10.01	-0.00	0.3093	0.0140	-0.0515	-0.0053	-0.0011	0.0017
7	12.01	-0.00	0.4249	0.0097	-0.1024	-0.0002	-0.0012	0.0015
8	14.00	-0.00	0.5404	0.0054	-0.1532	-0.0115	-0.0005	0.0025
9	16.03	-0.00	0.6644	0.0034	-0.2113	-0.0064	0.0006	0.0024
10	18.01	-0.00	0.7951	-0.0008	-0.2685	-0.0013	0.0009	0.0017
11	20.10	-0.00	0.9377	-0.0144	-0.3299	0.0008	0.0005	0.0011
12	22.03	-0.00	1.0395	-0.0212	-0.3679	-0.0047	0.0013	0.0024
13	23.97	-0.00	1.0489	-0.0143	-0.3553	-0.0017	0.0037	0.0017
14	25.97	-0.00	1.0354	-0.0051	-0.3392	0.0038	0.0037	-0.0006
15	28.01	-0.00	1.0086	0.0087	-0.3218	0.0064	-0.0026	-0.0006
16	0.00	0.00	-0.2092	0.0336	0.1689	-0.0092	-0.0006	0.0021

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 1
QPSF = 6.60

RUN NO. 8

TEMP = 88.

PD= 14.4401

RN/FTX10-6= 0.456026

VEL-FPS= 75.150

MACH= 0.0672

CONF= W2B1V1E(10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2767	0.0416	-0.2128	-0.0020	-0.0022	0.0015
2	2.01	-0.00	0.3728	0.0489	-0.2552	0.0031	-0.0028	-0.0002
3	4.03	-0.00	0.4830	0.0329	-0.3024	0.0000	-0.0021	-0.0000
4	5.86	-0.00	0.5834	0.0215	-0.3477	-0.0002	-0.0025	-0.0000
5	7.99	-0.00	0.7096	0.0290	-0.4068	0.0020	-0.0021	-0.0005
6	10.01	-0.00	0.8112	0.0269	-0.4483	0.0017	-0.0020	-0.0000
7	12.01	-0.00	0.9032	0.0295	-0.4841	0.0015	-0.0013	0.0005
8	14.00	-0.00	1.0112	0.0274	-0.5312	0.0067	-0.0000	-0.0001
9	16.03	-0.00	1.1491	0.0279	-0.5997	0.0052	0.0010	-0.0000
10	18.01	-0.00	1.2885	0.0213	-0.6583	0.0031	0.0018	0.0005
11	20.10	-0.00	1.3494	0.2105	-0.6373	0.0040	0.0040	0.0009
12	22.03	-0.00	1.3019	0.0184	-0.6063	-0.0015	0.0026	0.0022
13	23.97	-0.00	1.2908	0.0368	-0.5847	-0.0037	0.0075	0.0021
14	25.97	-0.00	1.2613	0.0436	-0.5575	0.0098	0.0029	-0.0031
15	28.01	-0.00	1.2188	0.0550	-0.5220	-0.0059	0.0059	0.0005
16	0.00	0.00	0.2788	0.0510	-0.2161	-0.0047	-0.0024	0.0010

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PAGE NO. 150

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 9

TEMP = 86.
RN/FTX10-6 = 0.458315

VEL-FPS = 74.985

PO = 14.4499
MACH = 0.0670

CONF = W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0118	0.0304	-0.0079	0.0054	-0.0012	0.0003
2	2.01	-0.00	0.1132	0.0308	-0.0537	-0.0003	-0.0004	0.0006
3	4.03	-0.00	0.2222	0.0241	-0.1026	-0.0007	-0.0007	0.0006
4	5.86	-0.00	0.3248	0.0127	-0.1476	0.0016	-0.0011	-0.0004
5	7.99	-0.00	0.4457	0.0061	-0.2015	0.0039	-0.0008	0.0000
6	10.01	-0.00	0.5569	0.0111	-0.2510	0.0008	-0.0013	0.0002
7	12.01	-0.00	0.6618	0.0114	-0.2937	0.0033	-0.0010	0.0007
8	14.00	-0.00	0.7678	0.0070	-0.3369	0.0004	0.0007	0.0013
9	16.03	-0.00	0.8780	0.0073	-0.3851	0.0028	0.0024	0.0007
10	18.01	-0.00	1.0108	0.0007	-0.4428	0.0105	0.0006	0.0000
11	20.10	-0.00	1.1321	-0.0107	-0.4882	0.0076	0.0024	0.0006
12	22.03	-0.00	1.1774	-0.0108	-0.4840	0.0023	0.0019	0.0018
13	23.97	-0.00	1.1492	-0.0041	-0.4509	0.0001	0.0070	0.0012
14	25.97	-0.00	1.1174	0.0167	-0.4254	0.0056	0.0003	-0.0004
15	28.01	-0.00	1.0727	0.0281	-0.3926	0.0114	0.0026	-0.0018
16	0.00	0.00	0.0215	0.0352	-0.0125	-0.0055	-0.0011	0.0013

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PAGE NO. 151

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TAKE 9
QPSF = 6.60

RUN NO. 10

TEMP = 82.
RH/FTX10-6= 0.464529

VEL-FPS= 74.403

PO= 14.5776
MACH= 0.0665

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0204	0.0352	-0.0129	0.0053	-0.0019	-0.0001
2	2.01	-0.00	0.1164	0.0285	-0.0562	0.0050	-0.0012	-0.0000
3	4.03	-0.00	0.2265	0.0218	-0.1061	0.0019	-0.0011	0.0006
4	5.86	-0.00	0.3312	0.0174	-0.1533	0.0043	-0.0011	0.0000
5	7.99	-0.00	0.4488	0.0061	-0.2055	0.0066	-0.0008	-0.0005
6	10.01	-0.00	0.5633	0.0088	-0.2551	0.0063	-0.0008	0.0000
7	12.01	-0.00	0.6682	0.0138	-0.2989	0.0006	-0.0003	0.0013
8	14.00	-0.00	0.7732	0.0047	-0.3400	0.0058	0.0006	0.0000
9	16.03	-0.00	0.8940	0.0050	-0.3951	0.0055	0.0020	0.0006
10	18.01	-0.00	1.0162	-0.0015	-0.4459	0.0077	-0.0002	0.0001
11	20.10	-0.00	1.1417	-0.0083	-0.4937	0.0047	0.0004	0.0007
12	22.03	-0.00	1.1891	-0.0107	-0.4929	-0.0004	0.0026	0.0014
13	23.97	-0.00	1.1191	0.0004	-0.4357	-0.0051	0.0071	0.0019
14	25.97	-0.00	1.1142	0.0166	-0.4238	0.0058	0.0070	-0.0016
15	28.01	-0.00	1.0963	0.0235	-0.4064	0.0088	0.0077	-0.0029
16	0.00	0.00	0.0269	0.0282	-0.0141	-0.0055	-0.0014	0.0013

REPORT NO. LSWT 422
PAGE NO. 152

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 11

TEMP = 85.
RN/FTX10-6= 0.461299

VEL-FPS= 74.606

PO= 14.5776
MACH= 0.0667

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0192	0.0422	-0.0135	-0.0000	-0.0011	0.0016
2	0.00	-6.00	0.0303	0.0374	-0.0232	0.1008	0.0026	-0.0232
3	0.00	-4.00	0.0248	0.0398	-0.0187	0.0708	0.0014	-0.0163
4	0.00	-2.00	0.0194	0.0422	-0.0136	0.0272	-0.0005	-0.0062
5	0.00	0.00	0.0214	0.0422	-0.0146	-0.0001	-0.0018	0.0016
6	-0.00	1.99	0.0190	0.0423	-0.0158	-0.0329	-0.0033	0.0092
7	-0.00	3.99	0.0219	0.0401	-0.0196	-0.0602	-0.0046	0.0161
8	-0.00	5.99	0.0293	0.0378	-0.0247	-0.0876	-0.0062	0.0235
9	0.00	0.00	0.0214	0.0422	-0.0146	-0.0028	-0.0021	0.0023

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REPORT NO. LSWT 422
PAGE NO. 153

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 12

TEMP = 87.
RN/FTX10-6= 0.459156

VEL-FPS= 74.743

PD= 14.5776
MACH= 0.0668

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	4.03	-0.00	0.2276	0.0194	-0.1047	-0.0035	-0.0011	0.0007
2	4.03	-6.00	0.2376	0.0193	-0.1149	0.1030	0.0053	-0.0244
3	4.03	-4.00	0.2365	0.0240	-0.1117	0.0729	0.0031	-0.0169
4	4.03	-2.00	0.2300	0.0217	-0.1069	0.0538	0.0003	-0.0108
5	4.03	-0.00	0.2320	0.0241	-0.1066	0.0046	-0.0015	-0.0000
6	4.02	1.99	0.2323	0.0219	-0.1084	-0.0281	-0.0037	0.0081
7	4.02	3.99	0.2325	0.0220	-0.1111	-0.0583	-0.0059	0.0150
8	4.02	5.99	0.2365	0.0174	-0.1158	-0.1075	-0.0079	0.0253
9	4.03	-0.00	0.2319	0.0218	-0.1069	-0.0035	-0.0017	0.0007

REPORT NO. LSWT 422
PAGE NO. 151

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 13

TEMP = 85.

PO = 14.5776

RN/FTX10-6 = 0.461283

VEL-FPS = 74.608

MACH = 0.0667

CONF = W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRH	CYM
1	10.01	-0.00	0.5644	0.0135	-0.2554	-0.0018	-0.0016	0.0003
2	10.01	-6.00	0.5712	0.0086	-0.2624	0.0966	0.0088	-0.0230
3	10.01	-4.00	0.5679	0.0110	-0.2585	0.0583	0.0051	-0.0147
4	10.01	-2.00	0.5668	0.0134	-0.2551	0.0364	0.0017	-0.0085
5	10.01	-0.00	0.5666	0.0135	-0.2550	-0.0100	-0.0012	0.0027
6	10.01	1.99	0.5631	0.0136	-0.2552	-0.0374	-0.0051	0.0091
7	10.01	3.99	0.5639	0.0113	-0.2584	-0.0731	-0.0076	0.0168
8	10.01	5.99	0.5679	0.0091	-0.2632	-0.1033	-0.0112	0.0243
9	10.01	-0.00	0.5644	0.0135	-0.2544	-0.0046	-0.0019	0.0009

REPORT NO. LSWT 422
PAGE NO. 155

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 14

TEMP = 94.

PO= 14.5776

RN/FTX10-6= 0.451753

VEL-FPS= 75.225

MACH= 0.0673

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	16.03	-0.00	0.8865	0.0074	-0.3909	-0.0026	0.0021	0.0009
2	16.03	-6.00	0.8868	0.0002	-0.3965	0.1093	0.0081	-0.0244
3	16.03	-4.00	0.8846	0.0025	-0.3926	0.0793	0.0066	-0.0180
4	16.03	-2.00	0.8856	0.0073	-0.3914	0.0328	0.0029	-0.0083
5	16.03	-0.00	0.8898	0.0074	-0.3912	-0.0027	0.0008	0.0009
6	16.03	1.99	0.8863	0.0075	-0.3918	-0.0382	-0.0019	0.0097
7	16.03	3.99	0.8871	0.0052	-0.3950	-0.0684	-0.0052	0.0167
8	16.03	5.99	0.8931	0.0030	-0.4028	-0.1096	-0.0079	0.0251
9	16.03	-0.00	0.8876	0.0074	-0.3910	0.0000	0.0011	0.0003

REPORT NO. LSWT 422
PAGE NO. 156

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 15

TEMP = 97.
RN/FTX10-6= 0.448607

VEL-FPS= 75.436

PD= 14.5776
MACH= 0.0674

CONF= W2B1V1E(0)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1395	-0.0059	-0.4936	-0.0088	0.0010	0.0023
2	20.10	-6.00	1.1440	-0.0154	-0.5046	0.1192	0.0030	-0.0256
3	20.10	-4.00	1.1440	-0.0130	-0.4999	0.0729	0.0027	-0.0165
4	20.10	-2.00	1.1365	-0.0083	-0.4924	0.0402	0.0016	-0.0090
5	20.10	-0.00	1.1438	-0.0082	-0.4966	0.0047	0.0008	0.0002
6	20.09	1.99	1.1436	-0.0105	-0.4960	-0.0388	0.0017	0.0108
7	20.09	3.99	1.1380	-0.0104	-0.4946	-0.0879	0.0008	0.0205
8	20.09	5.99	1.1452	-0.0126	-0.5025	-0.1181	-0.0013	0.0269
9	20.10	-0.00	1.1406	-0.0082	-0.4945	-0.0061	0.0016	0.0016

REPORT NO. LSUT 422

PAGE NO. 157

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 16

TEMP = 91.
RN/FTX10-6 = 0.454766

VEL-FPS = 75.041

PO = 14.5727
MACH = 0.0671

CONF = W2B1V1E(10)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2204	0.0289	0.1661	-0.0011	-0.0018	0.0009
2	2.01	-0.00	-0.1177	0.0316	0.1225	-0.0069	-0.0013	0.0016
3	4.03	-0.00	-0.0152	0.0272	0.0768	-0.0072	-0.0016	0.0016
4	5.86	-0.00	0.0851	0.0229	0.0318	-0.0021	-0.0013	0.0004
5	7.99	-0.00	0.2018	0.0138	-0.0180	0.0029	-0.0014	-0.0001
6	10.01	-0.00	0.3206	0.0119	-0.0691	-0.0055	-0.0012	0.0017
7	12.01	-0.00	0.4276	0.0098	-0.1148	-0.0031	-0.0012	0.0011
8	14.00	-0.00	0.5411	0.0055	-0.1622	-0.0035	-0.0014	0.0012
9	16.03	-0.00	0.6481	-0.0012	-0.2077	0.0044	-0.0002	-0.0000
10	18.01	-0.00	0.7810	-0.0031	-0.2650	0.0066	-0.0012	-0.0006
11	20.10	-0.00	0.9171	-0.0144	-0.3232	0.0090	0.0004	-0.0007
12	22.03	-0.00	1.0103	-0.0189	-0.3556	0.0007	0.0012	0.0017
13	23.97	-0.00	1.0125	-0.0192	-0.3328	-0.0015	0.0040	0.0022
14	25.97	-0.00	0.9764	-0.0054	-0.3031	0.0041	0.0023	-0.0001
15	28.01	-0.00	0.9305	0.0059	-0.2735	0.0125	0.0019	-0.0026
16	0.00	0.00	-0.2085	0.0383	0.1612	-0.0056	-0.0017	0.0016

REPORT NO. LSNT 422
PAGE NO. 158

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 17

TEMP = 88.

PD= 14.5727

RN/FTX10-6= 0.457985

VEL-FPS= 74.828

MACH= 0.0669

CONF= W2B1V1E(+10)H1(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2469	0.0555	-0.1896	-0.0017	-0.0024	0.0014
2	2.01	-0.00	0.3549	0.0511	-0.2385	-0.0021	-0.0014	0.0004
3	4.03	-0.00	0.4628	0.0398	-0.2876	0.0002	-0.0018	-0.0001
4	5.86	-0.00	0.5684	0.0331	-0.3381	-0.0001	-0.0017	-0.0000
5	7.99	-0.00	0.7001	0.0312	-0.3973	0.0048	-0.0018	-0.0007
6	10.01	-0.00	0.7996	0.0291	-0.4377	0.0073	-0.0017	0.0003
7	12.01	-0.00	0.8905	0.0387	-0.4727	-0.0010	-0.0009	0.0006
8	14.00	-0.00	0.9912	0.0343	-0.5122	0.0070	0.0010	0.0003
9	16.03	-0.00	1.1120	0.0346	-0.5682	0.0093	0.0020	0.0002
10	18.01	-0.00	1.2353	0.0303	-0.6182	0.0116	-0.0009	0.0003
11	20.10	-0.00	1.2979	0.0162	-0.6219	0.0011	0.0056	0.0021
12	22.03	-0.00	1.2681	0.0321	-0.5753	0.0041	0.0013	0.0019
13	23.97	-0.00	1.2505	0.0365	-0.5518	-0.0062	0.0072	0.0032
14	25.97	-0.00	1.1972	0.0549	-0.5125	0.0022	0.0041	-0.0002
15	28.01	-0.00	1.1827	0.0595	-0.4938	0.0131	-0.0003	-0.0021
16	0.00	0.00	0.2534	0.0555	-0.1924	-0.0017	-0.0024	0.0009

REPORT NO. LSMT 422
PAGE NO. 159

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 18

TEMP = 87.
RN/FTX10-6= 0.459050

VEL-FPS= 74.760

PO= 14.5727
MACH= 0.0668

CONF= W2B1V1E(10)H1(1,10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2902	0.0582	-0.2312	0.0032	-0.0022	-0.0002
2	2.01	-0.00	0.3917	0.0562	-0.2774	0.0029	-0.0022	-0.0001
3	4.03	-0.00	0.5049	0.0472	-0.3298	0.0025	-0.0028	-0.0000
4	5.86	-0.00	0.6096	0.0382	-0.3773	-0.0033	-0.0024	0.0001
5	7.99	-0.00	0.7358	0.0316	-0.4354	0.0044	-0.0021	-0.0006
6	10.01	-0.00	0.8385	0.0342	-0.4771	0.0015	-0.0010	0.0005
7	12.01	-0.00	0.9284	0.0391	-0.5124	0.0013	-0.0003	0.0000
8	14.00	-0.00	1.0353	0.0370	-0.5585	0.0010	0.0007	0.0006
9	16.03	-0.00	1.1551	0.0398	-0.6136	0.0034	0.0007	0.0005
10	18.01	-0.00	1.2945	0.0355	-0.6737	0.0056	0.0001	0.0000
11	20.10	-0.00	1.3945	0.0239	-0.7012	0.0028	-0.0001	0.0001
12	22.03	-0.00	1.3582	0.0305	-0.6515	-0.0020	0.0013	0.0017
13	23.97	-0.00	1.3001	0.0393	-0.5990	-0.0067	0.0068	0.0022
14	25.97	-0.00	1.2364	0.0529	-0.5475	-0.0061	0.0066	0.0027
15	28.01	-0.00	1.2007	0.0549	-0.5100	0.0156	-0.0010	-0.0038
16	0.00	0.00	0.2966	0.0559	-0.2349	-0.0049	-0.0027	0.0011

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PAGE NO. 160

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9

QPSF = 6.60

RUN NO. 19

TEMP = 85.

PO = 14.5727

RN/FTX10-6 = 0.461225

VEL-FPS = 74.618

MACH = 0.0667

CONF = W2B1V1E(-10)H1(1,10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.1790	0.0433	0.1294	-0.0014	-0.0007	0.0004
2	2.01	-0.00	-0.0797	0.0460	0.0861	-0.0018	-0.0013	0.0004
3	4.03	-0.00	0.0293	0.0416	0.0380	0.0032	-0.0020	-0.0007
4	5.86	-0.00	0.1265	0.0372	-0.0044	-0.0052	-0.0012	0.0001
5	7.99	-0.00	0.2345	0.0211	-0.0501	0.0053	-0.0014	-0.0007
6	10.01	-0.00	0.3566	0.0215	-0.1034	-0.0004	-0.0016	0.0005
7	12.01	-0.00	0.4732	0.0219	-0.1545	0.0019	-0.0012	0.0000
8	14.00	-0.00	0.5878	0.0152	-0.2019	-0.0011	-0.0015	0.0006
9	16.03	-0.00	0.7033	0.0109	-0.2551	0.0094	-0.0002	-0.0007
10	18.01	-0.00	0.8404	0.0019	-0.3158	0.0089	0.0000	-0.0011
11	20.10	-0.00	0.9840	-0.0093	-0.3783	0.0113	0.0010	-0.0006
12	22.03	-0.00	1.0881	-0.0114	-0.4144	0.0083	0.0011	-0.0005
13	23.97	-0.00	1.1073	-0.0139	-0.4035	0.0086	0.0035	-0.0001
14	25.97	-0.00	1.0749	-0.0049	-0.3669	0.0036	0.0040	-0.0005
15	28.01	-0.00	1.0186	0.0040	-0.3210	0.0041	0.0050	-0.0012
16	0.00	0.00	-0.1704	0.0457	0.1254	-0.0070	-0.0016	0.0011

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REPORT NO. LSWT 422
PAGE NO. 161

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 20

TEMP = 85.
RN/FTX10-6= 0.461119

VEL-FPS= 74.635

PO= 14.5678
MACH= 0.0667

CONF= W2B1V1E(0)H1(1,10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0561	0.0355	-0.0497	-0.0004	-0.0012	0.0012
2	2.01	-0.00	0.1576	0.0359	-0.0950	-0.0062	-0.0014	0.0009
3	4.03	-0.00	0.2666	0.0268	-0.1433	-0.0011	-0.0014	0.0002
4	5.86	-0.00	0.3691	0.0201	-0.1899	-0.0015	-0.0014	-0.0002
5	7.99	-0.00	0.4890	0.0088	-0.2417	0.0008	-0.0018	-0.0002
6	10.01	-0.00	0.6013	0.0138	-0.2931	0.0032	-0.0014	0.0002
7	12.01	-0.00	0.7072	0.0165	-0.3370	0.0056	-0.0010	0.0001
8	14.00	-0.00	0.8175	0.0097	-0.3818	0.0054	0.0003	-0.0003
9	16.03	-0.00	0.9534	0.0102	-0.4473	0.0076	0.0013	-0.0003
10	18.01	-0.00	1.0851	0.0012	-0.5053	0.0072	0.0010	0.0002
11	20.10	-0.00	1.2118	-0.0077	-0.5521	0.0070	0.0024	-0.0003
12	22.03	-0.00	1.2655	-0.0054	-0.5575	0.0043	0.0018	0.0003
13	23.97	-0.00	1.2471	-0.0058	-0.5267	0.0074	0.0028	-0.0004
14	25.97	-0.00	1.1684	0.0100	-0.4673	0.0026	0.0040	-0.0009
15	28.01	-0.00	1.1123	0.0212	-0.4177	0.0167	0.0035	-0.0036
16	0.00	0.00	0.0637	0.0379	-0.0526	-0.0032	-0.0018	0.0013

REPORT NO. LSWT 422
PAGE NO. 162

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 21

TEMP = 85.
RN/FTX10-6= 0.461070

VEL-FPS= 74.643

PO= 14.5678
MACH= 0.0667

CONF= W2B1V1E(0)H1(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.0217	0.0395	0.0302	-0.0023	-0.0017	0.0011
2	2.01	-0.00	0.0775	0.0374	-0.0148	0.0000	-0.0014	0.0005
3	4.03	-0.00	0.1855	0.0284	-0.0626	-0.0030	-0.0013	0.0006
4	5.86	-0.00	0.2870	0.0194	-0.1076	0.0047	-0.0014	-0.0011
5	7.99	-0.00	0.4003	0.0080	-0.1576	0.0016	-0.0014	0.0000
6	10.01	-0.00	0.5192	0.0154	-0.2091	0.0013	-0.0013	0.0006
7	12.01	-0.00	0.6176	0.0156	-0.2495	0.0010	-0.0009	0.0012
8	14.00	-0.00	0.7192	0.0112	-0.2914	0.0035	-0.0006	0.0001
9	16.03	-0.00	0.8305	0.0139	-0.3384	0.0087	0.0007	0.0004
10	18.01	-0.00	0.9601	0.0096	-0.3950	0.0083	0.0011	0.0005
11	20.10	-0.00	1.0889	-0.0040	-0.4437	0.0026	0.0015	0.0018
12	22.03	-0.00	1.1225	-0.0019	-0.4326	0.0028	0.0023	0.0017
13	23.97	-0.00	1.0567	0.0092	-0.3791	-0.0045	0.0065	0.0034
14	25.97	-0.00	1.0514	0.0186	-0.3744	0.0034	0.0030	0.0000
15	28.01	-0.00	1.0451	0.0279	-0.3700	0.0224	-0.0015	-0.0043
16	0.00	0.00	-0.0174	0.0418	0.0274	-0.0024	-0.0014	0.0005

REPORT NO. LSWT 422
PAGE NO. 163

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9
QPSF = 6.60

RUN NO. 22

TEMP = 85.
RN/FTX10-6= 0.460989

VEL-FPS= 74.656

PO= 14.5579
MACH= 0.0668

CONF= H2B1V1E(-10)H1(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2528	0.0426	0.2026	-0.0007	-0.0010	0.0007
2	2.01	-0.00	-0.1502	0.0476	0.1585	-0.0037	-0.0006	0.0009
3	4.03	-0.00	-0.0411	0.0433	0.1095	-0.0041	-0.0009	0.0004
4	5.86	-0.00	0.0570	0.0389	0.0665	-0.0071	-0.0008	0.0011
5	7.99	-0.00	0.1683	0.0228	0.0201	-0.0020	-0.0009	-0.0000
6	10.01	-0.00	0.2839	0.0208	-0.0298	0.0003	-0.0009	0.0004
7	12.01	-0.00	0.3963	0.0235	-0.0774	-0.0027	-0.0007	0.0010
8	14.00	-0.00	0.5055	0.0144	-0.1220	-0.0030	-0.0007	0.0022
9	16.03	-0.00	0.6168	0.0147	-0.1704	0.0076	0.0008	-0.0002
10	18.01	-0.00	0.7378	0.0081	-0.2206	0.0044	-0.0001	0.0004
11	20.10	-0.00	0.8762	-0.0055	-0.2775	0.0041	0.0022	-0.0001
12	22.03	-0.00	0.9717	-0.0077	-0.3092	0.0012	0.0023	0.0005
13	23.97	-0.00	0.9599	-0.0056	-0.2780	-0.0010	0.0017	0.0010
14	25.97	-0.00	0.9236	0.0081	-0.2553	0.0045	0.0004	-0.0018
15	28.01	-0.00	0.9323	0.0198	-0.2572	0.0046	0.0041	-0.0013
16	0.00	0.00	-0.2495	0.0450	0.2019	-0.0089	-0.0012	0.0010

REPORT NO. LSMT 422

PAGE NO. 164

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 9

QPSF = 6.60

RUN NO. 23

TEMP = 85.

PU= 14.5579

RN/FTX10-6= 0.460989

VEL-FPS= 74.656

MACH= 0.0668

CONF= W281V1E(10)H1(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2080	0.0715	-0.1517	-0.0013	-0.0023	0.0008
2	2.01	-0.00	0.3116	0.0648	-0.1984	0.0010	-0.0020	0.0002
3	4.03	-0.00	0.4228	0.0558	-0.2469	0.0006	-0.0020	-0.0001
4	5.86	-0.00	0.5349	0.0515	-0.2998	0.0002	-0.0020	-0.0006
5	7.99	-0.00	0.6547	0.0425	-0.3546	0.0053	-0.0020	-0.0013
6	10.01	-0.00	0.7639	0.0452	-0.3996	0.0023	-0.0019	0.0004
7	12.01	-0.00	0.8462	0.0500	-0.4305	0.0049	-0.0005	0.0003
8	14.00	-0.00	0.9405	0.0455	-0.4649	0.0074	0.0000	-0.0002
9	16.03	-0.00	1.0645	0.0506	-0.5246	0.0097	0.0004	-0.0008
10	18.01	-0.00	1.1857	0.0486	-0.5717	0.0066	-0.0017	-0.0001
11	20.10	-0.00	1.2665	0.0322	-0.5865	0.0068	0.0022	0.0008
12	22.03	-0.00	1.2122	0.0433	-0.5197	-0.0006	0.0028	0.0020
13	23.97	-0.00	1.1687	0.0500	-0.4845	-0.0028	0.0055	0.0019
14	25.97	-0.00	1.1355	0.0592	-0.4656	0.0133	-0.0003	-0.0043
15	28.01	-0.00	1.1571	0.0616	-0.4761	0.0133	0.0000	-0.0022
16	0.00	0.00	0.2112	0.0715	-0.1520	-0.0040	-0.0023	0.0004

REPORT NO. LSWT 422
PAGE NO. 165

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 24

TEMP = 84.

PO= 14.5481

RN/FTX10-6= 0.461918

VEL-FPS= 74.611

MACH= 0.0667

CONF= W2B1V1E(10)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2268	0.0577	-0.1714	-0.0070	-0.0017	0.0016
2	2.01	-0.00	0.3304	0.0533	-0.2204	-0.0019	-0.0017	0.0004
3	4.03	-0.00	0.4490	0.0443	-0.2746	-0.0050	-0.0017	0.0011
4	5.86	-0.00	0.5569	0.0353	-0.3247	-0.0027	-0.0020	0.0005
5	7.99	-0.00	0.6831	0.0358	-0.3840	-0.0004	-0.0013	-0.0000
6	10.01	-0.00	0.7858	0.0337	-0.4265	-0.0061	-0.0015	0.0012
7	12.01	-0.00	0.8746	0.0363	-0.4588	-0.0063	-0.0004	0.0018
8	14.00	-0.00	0.9710	0.0388	-0.4959	-0.0092	0.0012	0.0019
9	16.03	-0.00	1.0856	0.0415	-0.5427	-0.0040	0.0019	0.0006
10	18.01	-0.00	1.1982	0.0347	-0.5853	0.0038	0.0002	0.0004
11	20.10	-0.00	1.2759	0.0276	-0.5959	-0.0068	0.0041	0.0028
12	22.03	-0.00	1.2436	0.0366	-0.5554	-0.0251	0.0115	0.0075
13	23.97	-0.00	1.2474	0.0459	-0.5472	0.0017	0.0014	-0.0012
14	25.97	-0.00	1.1662	0.0595	-0.4921	0.0022	0.0018	-0.0007
15	28.01	-0.00	1.1590	0.0617	-0.4800	-0.0030	0.0022	0.0004
16	0.00	0.00	0.2376	0.0624	-0.1765	-0.0070	-0.0013	0.0016

REPORT NO. LSWT 422
PAGE NO. 166

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 24
OPSF = 6.60

RUN NO. 25

TEMP = 84.

PO = 14.5481

RH/FTX10-6 = 0.461951

VEL-FPS = 74.606

MACH = 0.0667

CONF = W2B1V1E(-10)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2118	0.0337	0.1607	-0.0066	-0.0007	0.0015
2	2.01	-0.00	-0.1082	0.0387	0.1123	-0.0069	-0.0006	0.0016
3	4.03	-0.00	0.0007	0.0297	0.0644	-0.0046	-0.0010	0.0010
4	5.86	-0.00	0.0989	0.0230	0.0205	-0.0050	-0.0019	0.0011
5	7.99	-0.00	0.2177	0.0163	-0.0314	-0.0080	-0.0012	0.0018
6	10.01	-0.00	0.3354	0.0143	-0.0834	-0.0084	-0.0008	0.0018
7	12.01	-0.00	0.4467	0.0076	-0.1296	-0.0087	-0.0008	0.0019
8	14.00	-0.00	0.5549	0.0079	-0.1731	-0.0063	-0.0011	0.0013
9	16.03	-0.00	0.6590	0.0034	-0.2105	-0.0064	0.0002	0.0016
10	18.01	-0.00	0.7779	-0.0032	-0.2596	-0.0040	0.0009	0.0018
11	20.10	-0.00	0.9186	-0.0098	-0.3146	-0.0043	0.0016	0.0013
12	22.03	-0.00	1.0066	-0.0167	-0.3395	-0.0044	0.0027	0.0023
13	23.97	-0.00	1.0118	-0.0099	-0.3233	-0.0068	0.0045	0.0012
14	25.97	-0.00	0.9865	-0.0031	-0.3006	-0.0040	0.0031	-0.0004
15	28.01	-0.00	0.9427	0.0059	-0.2697	-0.0036	0.0042	-0.0010
16	0.00	0.00	-0.2021	0.0337	0.1562	-0.0094	-0.0010	0.0011

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PAGE NO. 167

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 26

TEMP = 86.
RN/FTX10-6= 0.459622

VEL-FPS= 74.772

PO= 14.5383
MACH= 0.0669

CONF= W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0065	0.0351	-0.0011	-0.0054	-0.0014	0.0012
2	2.01	-0.00	0.1068	0.0331	-0.0495	-0.0030	-0.0011	0.0007
3	4.03	-0.00	0.2234	0.0241	-0.1008	-0.0007	-0.0014	0.0001
4	5.86	-0.00	0.3226	0.0151	-0.1465	-0.0092	-0.0006	0.0009
5	7.99	-0.00	0.4457	0.0108	-0.2017	-0.0096	-0.0009	0.0016
6	10.01	-0.00	0.5602	0.0111	-0.2512	-0.0045	-0.0012	0.0009
7	12.01	-0.00	0.6640	0.0044	-0.2932	-0.0102	-0.0008	0.0022
8	14.00	-0.00	0.7549	0.0093	-0.3285	-0.0050	-0.0011	0.0010
9	16.03	-0.00	0.8707	0.0072	-0.3757	-0.0025	0.0011	0.0003
10	18.01	-0.00	0.9929	0.0052	-0.4243	-0.0083	0.0013	0.0016
11	20.10	-0.00	1.1080	-0.0062	-0.4604	-0.0029	0.0026	0.0009
12	22.03	-0.00	1.1370	-0.0040	-0.4523	-0.0162	0.0065	0.0044
13	23.97	-0.00	1.1451	0.0051	-0.4439	-0.0134	0.0059	0.0027
14	25.97	-0.00	1.1091	0.0189	-0.4146	-0.0023	0.0045	-0.0013
15	28.01	-0.00	1.0568	0.0256	-0.3783	0.0006	0.0014	-0.0020
16	0.00	0.00	0.0141	0.0351	-0.0054	-0.0109	-0.0010	0.0014

REPORT NO. LSWT 422
PAGE NO. 168

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 27

TEMP = 88.

PO = 14.5383

RN/FTX10-6 = 0.457458

VEL-FPS = 74.914

MACH = 0.0670

CONF = W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0108	0.0421	-0.0040	-0.0054	-0.0010	0.0018
2	0.00	-6.00	0.0186	0.0373	-0.0135	0.1037	0.0032	-0.0239
3	0.00	-4.00	0.0154	0.0420	-0.0082	0.0682	0.0014	-0.0162
4	0.00	-2.00	0.0131	0.0421	-0.0071	0.0273	0.0007	-0.0073
5	0.00	0.00	0.0130	0.0421	-0.0042	0.0000	-0.0014	0.0005
6	-0.00	1.99	0.0138	0.0422	-0.0079	-0.0382	-0.0029	0.0094
7	-0.00	3.99	0.0179	0.0400	-0.0104	-0.0656	-0.0048	0.0173
8	-0.00	5.99	0.0197	0.0377	-0.0160	-0.0984	-0.0057	0.0244
9	0.00	0.00	0.0130	0.0421	-0.0051	-0.0054	-0.0017	0.0018

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73.

STATIC TARE 0
QPSF = 6.60

RUN NO. 28

TEMP = -90.

PO= 14.5383

RN/FTX10-6= 0.455358

VEL-FPS= 75.048

MACH= 0.0671

CONF= W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	4.03	-0.00	0.2245	0.0288	-0.1020	0.0019	-0.0014	0.0000
2	4.03	-6.00	0.2367	0.0240	-0.1113	0.1030	0.0056	-0.0249
3	4.03	-4.00	0.2312	0.0263	-0.1076	0.0675	0.0038	-0.0167
4	4.03	-2.00	0.2268	0.0237	-0.1036	0.0320	0.0010	-0.0085
5	4.03	-0.00	0.2277	0.0288	-0.1031	-0.0034	-0.0007	0.0013
6	4.02	1.99	0.2307	0.0289	-0.1052	-0.0363	-0.0035	0.0089
7	4.02	3.99	0.2326	0.0266	-0.1098	-0.0637	-0.0065	0.0158
8	4.02	5.99	0.2366	0.0244	-0.1151	-0.0939	-0.0084	0.0233
9	4.03	-0.00	0.2255	0.0288	-0.1034	-0.0089	-0.0009	0.0009

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PAGE NO. 170

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 29

TEMP = 90.
RN/FTX10-6= 0.455358

VEL-FPS= 75.048

PO= 14.5383
MACH= 0.0671

CONF= W2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5612	0.0158	-0.2524	-0.0045	-0.0016	0.0009
2	10.01	-6.00	0.5669	0.0086	-0.2607	0.1049	0.0101	-0.0238
3	10.01	-4.00	0.5659	0.0110	-0.2560	0.0748	0.0062	-0.0169
4	10.01	-2.00	0.5636	0.0134	-0.2540	0.0473	0.0022	-0.0105
5	10.01	-0.00	0.5623	0.0158	-0.2534	-0.0100	-0.0008	0.0021
6	10.01	1.99	0.5653	0.0136	-0.2558	-0.0320	-0.0052	0.0089
7	10.01	3.99	0.5639	0.0113	-0.2584	-0.0704	-0.0083	0.0161
8	10.01	5.99	0.5679	0.0068	-0.2632	-0.1033	-0.0112	0.0232
9	10.01	-0.00	0.5634	0.0135	-0.2534	-0.0100	-0.0008	0.0016

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REPORT NO. LSWT 422
PAGE NO. 171

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 30

TEMP = 88.

PO= 14.5383

NN/FTX10-6= 0.457474

VEL-FPS= 74.912

MACH= 0.0670

CONF= W2B1V1E(0)H2(1,0)

	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	16.03	-0.00	0.8706	0.0096	-0.3767	0.0001	0.0008	0.0008
2	16.03	-6.00	0.8656	0.0047	-0.3778	0.1068	0.0085	-0.0238
3	16.03	-4.00	0.8709	0.0071	-0.3791	0.0767	0.0070	-0.0168
4	16.03	-2.00	0.8677	0.0095	-0.3738	0.0412	0.0042	-0.0086
5	16.03	-0.00	0.8728	0.0119	-0.3775	0.0110	0.0006	-0.0005
6	16.03	1.99	0.8758	0.0097	-0.3803	-0.0381	-0.0016	0.0107
7	16.03	3.99	0.8723	0.0074	-0.3813	-0.0628	-0.0046	0.0170
8	16.03	5.99	0.8805	0.0053	-0.3897	-0.1040	-0.0093	0.0255
9	16.03	-0.00	0.8761	0.0096	-0.3776	-0.0025	0.0008	0.0003

REPORT NO. LSWT 422
PAGE NO. 172

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 31

TEMP = 88.

RN/FTX10-6= 0.457474

VEL-FPS= 74.912

PO= 14.5383
MACH= 0.0670

CONF= H2B1V1E(0)H2(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1057	-0.0039	-0.4617	-0.0030	0.0013	0.0015
2	20.10	-6.00	1.1155	-0.0110	-0.4760	0.1196	0.0051	-0.0252
3	20.10	-4.00	1.1069	-0.0086	-0.4688	0.0869	0.0039	-0.0181
4	20.10	-2.00	1.1123	-0.0062	-0.4683	0.0432	0.0026	-0.0091
5	20.10	-0.00	1.1057	-0.0039	-0.4627	-0.0003	0.0015	0.0024
6	20.09	1.99	1.1119	-0.0061	-0.4672	-0.0331	0.0007	0.0106
7	20.09	3.99	1.1181	-0.0083	-0.4731	-0.0768	-0.0006	0.0201
8	20.09	5.99	1.1155	-0.0105	-0.4770	-0.1152	-0.0027	0.0268
9	20.10	-0.00	1.1111	-0.0038	-0.4649	-0.0003	0.0009	0.0014

REPORT NO. LSWT 422
PAGE NO. 173

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 32

TEMP = 88.

PO = 14.5383

RN/FTX10-6 = 0.457539

VEL-FPS = 74.901

MACH = 0.0670

CONF = W2B1V1E(0)H2F(1,10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0783	0.0427	-0.0712	-0.0033	-0.0011	0.0013
2	2.01	-0.00	0.1797	0.0431	-0.1183	-0.0037	-0.0011	0.0008
3	4.03	-0.00	0.2952	0.0364	-0.1705	0.0013	-0.0011	0.0002
4	5.86	-0.00	0.3986	0.0321	-0.2200	0.0009	-0.0014	-0.0002
5	7.99	-0.00	0.5196	0.0278	-0.2736	-0.0021	-0.0010	-0.0001
6	10.01	-0.00	0.6308	0.0281	-0.3220	-0.0025	-0.0009	0.0004
7	12.01	-0.00	0.7390	0.0214	-0.3647	-0.0054	-0.0005	0.0016
8	14.00	-0.00	0.8492	0.0194	-0.4120	0.0023	0.0000	-0.0001
9	16.03	-0.00	0.9681	0.0197	-0.4623	-0.0033	0.0012	0.0010
10	18.01	-0.00	1.1032	0.0084	-0.5190	-0.0010	0.0015	0.0005
11	20.10	-0.00	1.2343	0.0016	-0.5667	0.0014	0.0032	0.0009
12	22.03	-0.00	1.2742	-0.0007	-0.5602	-0.0038	0.0013	0.0011
13	23.97	-0.00	1.2568	0.0059	-0.5311	-0.0087	0.0078	0.0027
14	25.97	-0.00	1.1815	0.0170	-0.4699	0.0053	0.0037	-0.0015
15	28.01	-0.00	1.1533	0.0167	-0.4360	0.0028	0.0017	-0.0020
16	0.00	0.00	0.0815	0.0404	-0.0732	-0.0006	-0.0012	0.0001

REPORT NO. LSWT 422

PAGE NO. 174

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 33

TEMP = 88.

PO= 14.5383

RN/FTX10-6= 0.457409

VEL-FPS= 74.922

MACH= 0.0670

CONF= W261V1E(-10)H2F(1,10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.1496	0.0483	0.0977	0.0009	-0.0004	0.0003
2	2.01	-0.00	-0.0514	0.0510	0.0525	0.0006	-0.0007	0.0004
3	4.03	-0.00	0.0619	0.0466	0.0032	-0.0024	-0.0003	0.0000
4	5.86	-0.00	0.1611	0.0446	-0.0417	-0.0055	-0.0005	0.0012
5	7.99	-0.00	0.2713	0.0356	-0.0892	0.0022	-0.0010	-0.0000
6	10.01	-0.00	0.3933	0.0313	-0.1434	-0.0089	-0.0001	0.0009
7	12.01	-0.00	0.5080	0.0292	-0.1896	-0.0038	-0.0008	0.0013
8	14.00	-0.00	0.6204	0.0249	-0.2364	-0.0041	-0.0001	0.0013
9	16.03	-0.00	0.7371	0.0205	-0.2860	-0.0017	0.0005	0.0007
10	18.01	-0.00	0.8689	0.0092	-0.3420	0.0087	0.0007	-0.0006
11	20.10	-0.00	1.0181	0.0026	-0.4041	-0.0025	0.0023	0.0008
12	22.03	-0.00	1.1082	-0.0042	-0.4320	-0.0080	0.0041	0.0020
13	23.97	-0.00	1.1394	-0.0044	-0.4240	0.0003	0.0037	0.0001
14	25.97	-0.00	1.0803	-0.0025	-0.3692	0.0036	0.0050	-0.0022
15	28.01	-0.00	1.0252	0.0040	-0.3215	-0.0013	0.0055	-0.0010
16	0.00	0.00	-0.1431	0.0507	0.0962	-0.0072	-0.0010	0.0011

REPORT NO. LSWT 422
PAGE NO. 175

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/27/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 34

TEMP = 90.

PO = 14.5236

RN/FTX10-6 = 0.455124

VEL-FPS = 75.087

MACH = 0.0671

CONF = W2B1V1E(10)H2F(1,10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2987	0.0606	-0.2389	0.0004	-0.0021	0.0004
2	2.01	-0.00	0.4022	0.0586	-0.2885	0.0028	-0.0015	-0.0001
3	4.03	-0.00	0.5198	0.0497	-0.3431	0.0051	-0.0018	-0.0012
4	5.86	-0.00	0.6253	0.0454	-0.3951	0.0020	-0.0021	-0.0000
5	7.99	-0.00	0.7527	0.0434	-0.4525	0.0016	-0.0014	-0.0004
6	10.01	-0.00	0.8543	0.0437	-0.4950	0.0040	-0.0010	-0.0000
7	12.01	-0.00	0.9496	0.0416	-0.5309	0.0011	-0.0002	0.0000
8	14.00	-0.00	1.0608	0.0466	-0.5794	0.0008	0.0011	0.0006
9	16.03	-0.00	1.1797	0.0469	-0.6297	-0.0021	0.0022	0.0007
10	18.01	-0.00	1.2966	0.0332	-0.6747	0.0002	0.0015	0.0001
11	20.10	-0.00	1.4368	0.2111	-0.7003	-0.0019	0.0054	0.0023
12	22.03	-0.00	1.3691	0.0351	-0.6548	-0.0098	0.0085	0.0040
13	23.97	-0.00	1.3357	0.0441	-0.6158	-0.0041	0.0062	0.0011
14	25.97	-0.00	1.2495	0.0576	-0.5501	0.0017	0.0021	-0.0023
15	28.01	-0.00	1.2052	0.0572	-0.5075	-0.0031	0.0046	0.0004
16	0.00	0.00	0.3041	0.0606	-0.2421	-0.0022	-0.0018	0.0005

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PAGE NO. 176

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 35
QPSF = 6.60

RUN NO. 35

TEMP = 90.

PO = 14.5236

RN/FTX10-6 = 0.455140

VEL-FPS = 75.084

MACH = 0.0671

CONF = W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0265	0.0353	-0.0222	0.0025	-0.0012	0.0005
2	2.01	-0.00	0.1290	0.0309	-0.0703	-0.0005	-0.0015	0.0006
3	4.03	-0.00	0.2401	0.0219	-0.1202	-0.0009	-0.0014	0.0007
4	5.86	-0.00	0.3446	0.0200	-0.1731	0.0013	-0.0011	0.0001
5	7.99	-0.00	0.4666	0.0110	-0.2271	0.0009	-0.0017	0.0002
6	10.01	-0.00	0.5885	0.0114	-0.2818	0.0005	-0.0010	0.0002
7	12.01	-0.00	0.6966	0.0117	-0.3285	0.0002	-0.0010	0.0008
8	14.00	-0.00	0.7981	0.0073	-0.3718	-0.0000	-0.0012	0.0003
9	16.03	-0.00	0.9170	0.0053	-0.4230	-0.0003	0.0011	0.0003
10	18.01	-0.00	1.0423	0.0010	-0.4760	0.0075	0.0013	0.0001
11	20.10	-0.00	1.1744	-0.0080	-0.5260	0.0045	0.0024	0.0008
12	22.03	-0.00	1.2153	-0.0198	-0.5225	-0.0007	0.0029	0.0020
13	23.97	-0.00	1.2279	-0.0035	-0.5146	-0.0004	0.0063	0.0003
14	25.97	-0.00	1.1745	0.0125	-0.4776	0.0105	0.0012	-0.0021
15	28.01	-0.00	1.1354	0.0238	-0.4410	-0.0051	0.0079	0.0019
16	0.00	0.00	0.0330	0.0376	-0.0247	-0.0002	-0.0015	0.0006

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REPORT NO. LSWT 422
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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 36

TEMP = -93.
RN/FTX10-6 = 0.450414

VEL-FPS = 75.554

PO = 14.4106
MACH = 0.0676

CONF = W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0276	0.0400	-0.0229	-0.0029	-0.0011	0.0017
2	0.00	-6.00	0.0366	0.0351	-0.0306	0.1008	0.0039	-0.0238
3	0.00	-4.00	0.0289	0.0375	-0.0254	0.0653	0.0021	-0.0156
4	0.00	-2.00	0.0277	0.0399	-0.0239	0.0407	0.0002	-0.0077
5	0.00	0.00	0.0266	0.0399	-0.0215	-0.0001	-0.0011	0.0006
6	-0.00	1.99	0.0284	0.0377	-0.0243	-0.0439	-0.0032	0.0107
7	-0.00	3.99	0.0292	0.0355	-0.0284	-0.0740	-0.0044	0.0187
8	-0.00	5.99	0.0355	0.0332	-0.0320	-0.1041	-0.0066	0.0262
9	0.00	0.00	0.0309	0.0400	-0.0232	-0.0083	-0.0010	0.0019

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 37

TEMP = 93.
RN/FTX10-6 = 0.450366

VEL-FPS = 75.562

PO = 14.4106
MACH = 0.0676

CONF = W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5874	0.0137	-0.2818	-0.0048	-0.0016	0.0010
2	10.01	-6.00	0.5954	0.0065	-0.2889	0.1073	0.0090	-0.0255
3	10.01	-4.00	0.5921	0.0113	-0.2855	0.0744	0.0058	-0.0184
4	10.01	-2.00	0.5909	0.0113	-0.2830	0.0388	0.0020	-0.0091
5	10.01	-0.00	0.5864	0.0137	-0.2808	-0.0076	-0.0019	0.0011
6	10.01	1.99	0.5873	0.0115	-0.2807	-0.0377	-0.0058	0.0102
7	10.01	3.99	0.5923	0.0093	-0.2866	-0.0679	-0.0094	0.0172
8	10.01	5.99	0.5930	0.0071	-0.2916	-0.1118	-0.0121	0.0257
9	10.01	-0.00	0.5896	0.0137	-0.2815	-0.0103	-0.0015	0.0011

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PAGE NO. 179

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 38

TEMP = 93.
RN/FTX10-6 = 0.450350

VEL-FPS = 75.564

PO = 14.4106
MACH = 0.0676

CONF = W2B1V1E(0)H2F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1755	0.0013	-0.5278	0.0045	0.0018	0.0002
2	20.10	-6.00	1.1844	-0.0057	-0.5368	0.1164	0.0078	-0.0255
3	20.10	-4.00	1.1758	-0.0010	-0.5288	0.0755	0.0054	-0.0177
4	20.10	-2.00	1.1800	0.0013	-0.5282	0.0427	0.0026	-0.0096
5	20.10	-0.00	1.1798	0.0013	-0.5281	-0.0009	0.0015	0.0015
6	20.09	1.99	1.1732	0.0014	-0.5247	-0.0501	-0.0003	0.0123
7	20.09	3.99	1.1707	-0.0008	-0.5258	-0.0856	-0.0015	0.0216
8	20.09	5.99	1.1812	-0.0053	-0.5334	-0.1213	-0.0040	0.0282
9	20.10	-0.00	1.1852	0.0014	-0.5308	-0.0092	0.0010	0.0018

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 39

TEMP = 95.

RN/FTX10-6= 0.448155

VEL-FPS= 75.723

PD= 14.4008

MACH= 0.0677

CONF= W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
2	0.00	-6.00	0.0398	0.0352	-0.0332	0.1062	0.0025	-0.0245
3	0.00	-4.00	0.0343	0.0375	-0.0286	0.0762	0.0010	-0.0164
4	0.00	-2.00	0.0310	0.0399	-0.0256	0.0352	-0.0000	-0.0075
5	0.00	0.00	0.0308	0.0400	-0.0260	0.0052	-0.0019	0.0004
6	-0.00	1.99	0.0327	0.0401	-0.0275	-0.0330	-0.0033	0.0092
7	-0.00	3.99	0.0336	0.0378	-0.0293	-0.0685	-0.0048	0.0175
	-0.00	5.99	0.0408	0.0356	-0.0367	-0.1014	-0.0063	0.0256
	0.00	0.00	0.0340	0.0400	-0.0276	-0.0057	-0.0017	0.0013

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 40

TEMP = 95.

RN/FTX10-6= 0.448155

VEL-FPS= 75.723

PD= 14.4008

MACH= 0.0677

CONF= W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5726	0.0089	-0.2689	-0.0020	-0.0016	0.0003
2	10.01	-6.00	0.5773	0.0041	-0.2739	0.1074	0.0086	-0.0249
3	10.01	-4.00	0.5740	0.0065	-0.2709	0.0664	0.0053	-0.0154
4	10.01	-2.00	0.5739	0.0089	-0.2690	0.0308	0.0014	-0.0077
5	10.01	-0.00	0.5737	0.0089	-0.2685	0.0006	-0.0014	-0.0002
6	10.01	1.99	0.5757	0.0067	-0.2699	-0.0349	-0.0055	0.0096
7	10.01	3.99	0.5764	0.0068	-0.2736	-0.0787	-0.0089	0.0192
8	10.01	5.99	0.5782	0.0022	-0.2782	-0.0871	-0.0128	0.0238
9	10.01	-0.00	0.5737	0.0089	-0.2676	-0.0074	-0.0016	0.0016

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 41

TEMP = 95.
RN/FTX10-6= 0.448219

VEL-FPS= 75.712

PO= 14.4008
MACH= 0.0677

CONF= W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1831	-0.0033	-0.5287	-0.0036	0.0019	0.0021
2	20.10	-6.00	1.1789	-0.0104	-0.5358	0.1273	0.0059	-0.0264
3	20.10	-4.00	1.1822	-0.0080	-0.5328	0.0836	0.0042	-0.0179
4	20.10	-2.00	1.1811	-0.0057	-0.5285	0.0481	0.0021	-0.0097
5	20.10	-0.00	1.1831	-0.0056	-0.5300	0.0044	0.0008	0.0008
6	20.09	1.99	1.1785	-0.0055	-0.5282	-0.0419	0.0005	0.0120
7	20.09	3.99	1.1804	-0.0077	-0.5319	-0.0829	-0.0005	0.0204
8	20.09	5.99	1.1758	-0.0100	-0.5319	-0.1130	-0.0024	0.0274
9	20.10	-0.00	1.1810	-0.0056	-0.5280	0.0045	0.0024	0.0002

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 42
QPSF = 6.60

RUN NO. 42

TEMP = 95.
RN/FTX10-6 = 0.448123

VEL-FPS = 75.728

PD = 14.4008
MACH = 0.0677

CONF = W2B1V1E(0)H1F(2,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0329	0.0377	-0.0270	-0.0084	-0.0010	0.0014
2	2.01	-0.00	0.1290	0.0309	-0.0698	-0.0005	-0.0008	0.0001
3	4.03	-0.00	0.2358	0.0219	-0.1185	-0.0036	-0.0014	0.0002
4	5.86	-0.00	0.3437	0.0129	-0.1677	-0.0067	-0.0010	0.0004
5	7.99	-0.00	0.4624	0.0086	-0.2220	-0.0017	-0.0010	0.0003
6	10.01	-0.00	0.6340	0.0373	-0.3010	-0.0049	-0.0011	0.0004
7	12.01	-0.00	0.6849	0.0069	-0.3172	-0.0051	-0.0016	0.0010
8	14.00	-0.00	0.7876	0.0072	-0.3608	-0.0053	-0.0005	0.0016
9	16.03	-0.00	0.9074	0.0029	-0.4152	-0.0057	-0.0004	0.0011
10	18.01	-0.00	1.0489	-0.0036	-0.4758	0.0020	-0.0002	0.0003
11	20.10	-0.00	1.1830	-0.0126	-0.5293	-0.0091	0.0029	0.0023
12	22.03	-0.00	1.1927	-0.0175	-0.5097	-0.0061	0.0026	0.0021
13	23.97	-0.00	1.2075	-0.0083	-0.5013	-0.0005	0.0026	0.0003
14	25.97	-0.00	1.1498	0.0100	-0.4631	-0.0002	0.0003	0.0003
15	28.01	-0.00	1.1226	0.0214	-0.4320	-0.0079	0.0052	-0.0006
16	0.00	0.00	0.0340	0.0353	-0.0270	-0.0057	-0.0014	0.0013

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 43
QPSF = 6.60

RUN NO. 43

TEMP = 95.

RN/FTX10-6= 0.448171

VEL-FPS= 75.720

PD= 14.4008
MACH= 0.0677

CONF= W2B1V1E(0)F

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0297	0.0330	-0.0247	-0.0029	-0.0011	0.0007
2	2.01	-0.00	0.1259	0.0262	-0.0638	-0.0059	-0.0011	0.0013
3	4.03	-0.00	0.2286	0.0195	-0.1076	0.0046	-0.0015	-0.0005
4	5.86	-0.00	0.3323	0.0128	-0.1519	-0.0011	-0.0011	0.0002
5	7.99	-0.00	0.4511	0.0038	-0.2037	-0.0015	-0.0014	0.0002
6	10.01	-0.00	0.5677	0.0088	-0.2545	-0.0045	-0.0013	0.0009
7	12.01	-0.00	0.6703	0.0091	-0.3004	0.0005	-0.0009	0.0008
8	14.00	-0.00	0.7806	0.0024	-0.3465	0.0029	-0.0009	0.0002
9	16.03	-0.00	0.9034	0.0052	-0.4075	0.0025	0.0007	0.0008
10	19.05	-0.00	1.0038	-0.0998	-0.4466	0.0075	0.0001	-0.0004
11	20.10	-0.00	1.1703	-0.0104	-0.5200	-0.0008	0.0025	0.0015
12	22.03	-0.00	1.2133	-0.0128	-0.5175	-0.0033	0.0049	0.0025
13	23.97	-0.00	1.2025	-0.0337	-0.4913	-0.0030	0.0054	0.0019
14	26.99	-0.00	1.0932	-0.0804	-0.4206	0.0162	-0.0019	-0.0034
15	28.01	-0.00	1.1379	0.0168	-0.4363	0.0190	-0.0018	-0.0035
16	0.00	0.00	0.0362	0.0330	-0.0275	-0.0029	-0.0011	0.0007

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44

QPSF = 6.60

RUN NO. 44

TEMP = 90.

RN/FTX10-6= 0.453471

VEL-FPS= 75.361

PO= 14.4057

MACH= 0.0674

CONF= W2B1V1E(0)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0278	0.0329	-0.0180	-0.0001	-0.0022	0.0016
2	2.01	-0.00	0.1308	0.0354	-0.0542	-0.0030	-0.0010	0.0012
3	4.03	-0.00	0.2392	0.0310	-0.0919	-0.0060	-0.0009	0.0013
4	5.86	-0.00	0.3347	0.0171	-0.1232	0.0019	-0.0014	0.0000
5	7.99	-0.00	0.4606	0.0150	-0.1655	-0.0010	-0.0016	0.0001
6	10.01	-0.00	0.5733	0.0176	-0.2047	-0.0039	-0.0011	0.0007
7	12.01	-0.00	0.6895	0.0201	-0.2423	0.0040	-0.0015	-0.0005
8	14.00	-0.00	0.7959	0.0156	-0.2770	0.0011	-0.0014	0.0006
9	16.03	-0.00	0.9077	0.0158	-0.3123	0.0010	-0.0006	0.0006
10	18.01	-0.00	1.0120	0.0136	-0.3432	-0.0018	-0.0005	0.0012
11	20.10	-0.00	1.1185	0.0115	-0.3767	0.0007	-0.0004	0.0006
12	22.03	-0.00	1.2152	0.0116	-0.4057	-0.0047	0.0026	0.0018
13	23.97	-0.00	1.3366	0.0048	-0.4471	-0.0076	0.0037	0.0024
14	25.97	-0.00	1.4110	0.0072	-0.4596	-0.0022	0.0014	0.0012
15	28.01	-0.00	1.4445	0.0164	-0.4507	0.0139	-0.0057	-0.0024
16	0.00	0.00	0.0398	0.0329	-0.0208	-0.0083	-0.0010	0.0013

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 45

TEMP = 92.

PO = 14.4057

RN/FTX10-6 = 0.451332

VEL-FPS = 75.506

MACH = 0.0675

CONF = W2B1V1E(0)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0344	0.0352	-0.0181	-0.0028	-0.0014	0.0006
2	0.00	-6.00	0.0411	0.0304	-0.0271	0.0981	0.0040	-0.0232
3	0.00	-4.00	0.0379	0.0328	-0.0212	0.0599	0.0022	-0.0154
4	0.00	-2.00	0.0356	0.0352	-0.0202	0.0353	0.0002	-0.0076
5	0.00	0.00	0.0332	0.0353	-0.0204	-0.0110	-0.0016	0.0025
6	-0.00	1.99	0.0341	0.0330	-0.0208	-0.0357	-0.0036	0.0093
7	-0.00	3.99	0.0370	0.0331	-0.0261	-0.0685	-0.0048	0.0174
8	-0.00	5.99	0.0433	0.0308	-0.0297	-0.0986	-0.0067	0.0244
9	0.00	0.00	0.0321	0.0352	-0.0194	-0.0083	-0.0017	0.0019

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 46

TEMP = 92.

PO = 14.4057

RN/FTX10-6 = 0.451348

VEL-FPS = 75.503

MACH = 0.0675

CONF = W2B1V1E(0)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5809	0.0153	-0.2066	-0.0066	-0.0014	0.0014
2	10.01	-6.00	0.5878	0.0104	-0.2137	0.0974	0.0117	-0.0238
3	10.01	-4.00	0.5845	0.0128	-0.2092	0.0645	0.0071	-0.0151
4	10.01	-2.00	0.5823	0.0152	-0.2063	0.0289	0.0030	-0.0068
5	10.01	-0.00	0.5831	0.0153	-0.2077	-0.0121	-0.0013	0.0016
6	10.01	1.99	0.5785	0.0154	-0.2073	-0.0341	-0.0067	0.0088
7	10.01	3.99	0.5814	0.0131	-0.2116	-0.0698	-0.0109	0.0177
8	10.01	5.99	0.5823	0.0109	-0.2138	-0.0973	-0.0148	0.0240
9	10.01	-0.00	0.5820	0.0153	-0.2071	-0.0012	-0.0018	0.0001

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PAGE NO. 188

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE = 0
QPSF = 6.60

RUN NO. 47

TEMP = 92.

PD = 14.4057

RN/FTX10-6 = 0.451332

VEL-FPS = 75.506

MACH = 0.0675

CONF = W2B1V1E(0)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1163	0.0091	-0.3764	0.0007	0.0001	0.0011
2	20.10	-6.00	1.1228	0.0020	-0.3881	0.0934	0.0027	-0.0202
3	20.10	-4.00	1.1207	0.0044	-0.3828	0.0661	0.0008	-0.0155
4	20.10	-2.00	1.1153	0.0091	-0.3759	0.0252	-0.0008	-0.0060
5	20.10	-0.00	1.1163	0.0091	-0.3760	0.0035	0.0007	0.0010
6	20.09	1.99	1.1128	0.0092	-0.3775	-0.0293	-0.0007	0.0086
7	20.09	3.99	1.1071	0.0069	-0.3770	-0.0674	0.0001	0.0174
8	20.09	5.99	1.1066	0.0047	-0.3853	-0.0840	-0.0029	0.0218
9	20.10	-0.00	1.1174	0.0091	-0.3765	0.0062	0.0010	0.0004

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 48

TEMP = 92.
RN/FTX10-6 = 0.451348

VEL-FPS = 75.503

PU = 14.4057
MACH = 0.0675

CONF = W2B1V1E(10)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2759	0.0556	-0.2071	-0.0046	-0.0024	0.0016
2	2.01	-0.00	0.3745	0.0558	-0.2424	-0.0021	-0.0020	-0.0000
3	4.03	-0.00	0.4818	0.0490	-0.2814	-0.0023	-0.0020	-0.0000
4	5.86	-0.00	0.5902	0.0423	-0.3199	0.0001	-0.0020	-0.0006
5	7.99	-0.00	0.7160	0.0378	-0.3626	-0.0001	-0.0019	-0.0006
6	10.01	-0.00	0.8235	0.0404	-0.3977	-0.0030	-0.0014	-0.0000
7	12.01	-0.00	0.9223	0.0429	-0.4289	-0.0004	-0.0020	-0.0000
8	14.00	-0.00	1.0278	0.0453	-0.4586	-0.0004	0.0003	0.0004
9	16.03	-0.00	1.1310	0.0455	-0.4891	-0.0006	-0.0005	0.0009
10	18.01	-0.00	1.2246	0.0432	-0.5136	-0.0006	0.0001	0.0009
11	20.10	-0.00	1.3129	0.0433	-0.5341	-0.0006	0.0005	0.0009
12	22.03	-0.00	1.4087	0.0457	-0.5594	-0.0088	0.0018	0.0028
13	23.97	-0.00	1.4830	0.0411	-0.5722	-0.0007	0.0010	0.0009
14	25.97	-0.00	1.5349	0.0433	-0.5704	-0.0141	0.0030	0.0039
15	28.01	-0.00	1.5339	0.0500	-0.5434	-0.0165	0.0021	0.0056
16	0.00	0.00	0.2769	0.0533	-0.2085	-0.0074	-0.0027	0.0017

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 49

TEMP = 90.

PO = 14.4057

RN/FTX10-6 = 0.453438

VEL-FPS = 75.366

MACH = 0.0674

CONF = W2B1V1E(-10)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2157	0.0382	0.1711	-0.0038	-0.0013	0.0009
2	2.01	-0.00	-0.1193	0.0408	0.1354	-0.0067	-0.0012	0.0010
3	4.03	-0.00	-0.0065	0.0363	0.0969	-0.0042	-0.0002	0.0004
4	5.86	-0.00	0.0867	0.0319	0.0650	-0.0098	-0.0011	0.0017
5	7.99	-0.00	0.2094	0.0250	0.0268	-0.0046	-0.0014	0.0004
6	10.01	-0.00	0.3277	0.0229	-0.0120	-0.0075	-0.0006	0.0011
7	12.01	-0.00	0.4425	0.0232	-0.0541	-0.0050	-0.0009	0.0010
8	14.00	-0.00	0.5629	0.0164	-0.0945	-0.0107	-0.0004	0.0017
9	16.03	-0.00	0.6724	0.0119	-0.1327	-0.0081	0.0001	0.0022
10	18.01	-0.00	0.7897	0.0098	-0.1698	-0.0029	-0.0008	0.0015
11	20.10	-0.00	0.9048	0.0006	-0.2059	-0.0004	-0.0004	0.0009
12	22.03	-0.00	1.0133	-0.0014	-0.2423	-0.0060	0.0003	0.0016
13	23.97	-0.00	1.1283	-0.0106	-0.2803	-0.0062	0.0007	0.0022
14	25.97	-0.00	1.2132	-0.0081	-0.3035	-0.0009	-0.0002	-0.0001
15	28.01	-0.00	1.2713	-0.0058	-0.3101	-0.0035	0.0005	0.0020
16	0.00	0.00	-0.2136	0.0336	0.1692	-0.0147	-0.0012	0.0023

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PAGE NO. 191

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 50

TEMP = 92.
RN/FTX10-6 = 0.451316

VEL-FPS = 75.508

PO = 14.4057
MACH = 0.0675

CONF = W2B1V1E(0)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0383	0.0516	-0.0199	-0.0055	-0.0010	0.0013
2	2.01	-0.00	0.1302	0.0260	-0.0421	-0.0111	-0.0009	0.0020
3	4.03	-0.00	0.2467	0.0284	-0.0718	-0.0084	-0.0012	0.0013
4	5.86	-0.00	0.3490	0.0215	-0.1005	-0.0031	-0.0015	0.0001
5	7.99	-0.00	0.4784	0.0170	-0.1374	-0.0060	-0.0014	0.0002
6	10.01	-0.00	0.5947	0.0148	-0.1702	-0.0089	-0.0009	0.0013
7	12.01	-0.00	0.7110	0.0150	-0.2053	-0.0008	-0.0010	0.0000
8	14.00	-0.00	0.8262	0.0105	-0.2398	-0.0092	-0.0008	0.0013
9	16.03	-0.00	0.9414	0.0106	-0.2730	0.0015	-0.0005	0.0004
10	18.01	-0.00	1.0552	0.0062	-0.3139	0.0040	-0.0005	-0.0001
11	20.10	-0.00	1.1907	0.0041	-0.3611	-0.0016	-0.0006	0.0011
12	22.03	-0.00	1.3123	0.0067	-0.4019	-0.0018	0.0010	0.0011
13	23.97	-0.00	1.4104	0.0045	-0.4249	-0.0019	-0.0001	0.0006
14	25.97	-0.00	1.4751	0.0091	-0.4317	-0.0072	0.0016	0.0007
15	28.01	-0.00	1.5454	0.0113	-0.4364	0.0065	0.0019	-0.0024
16	0.00	0.00	0.0377	0.0329	-0.0183	-0.0055	-0.0014	0.0013

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 51

TEMP = 92.
RN/FTX10-6 = 0.451316

VEL-FPS = 75.508

PO = 14.4057
MACH = 0.0675

CONF = W2B1V1E(0)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0378	0.0329	-0.0164	-0.0082	-0.0010	0.0019
2	0.00	-6.00	0.0468	0.0280	-0.0232	0.1009	0.0039	-0.0233
3	0.00	-4.00	0.0391	0.0304	-0.0194	0.0709	0.0020	-0.0163
4	0.00	-2.00	0.0400	0.0328	-0.0199	0.0353	0.0006	-0.0081
5	0.00	0.00	0.0389	0.0329	-0.0165	-0.0055	-0.0014	0.0013
6	-0.00	1.99	0.0375	0.0330	-0.0182	-0.0520	-0.0030	0.0109
7	-0.00	3.99	0.0416	0.0307	-0.0226	-0.0684	-0.0048	0.0174
8	-0.00	5.99	0.0424	0.0285	-0.0267	-0.0931	-0.0068	0.0231
9	0.00	0.00	0.0369	0.0329	-0.0156	-0.0110	-0.0016	0.0025

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 52

TEMP = 92.
RN/FTX10-6 = 0.451316

VEL-FPS = 75.508

PD = 14.4057
MACH = 0.0675

CONF = W2B1V1E(0)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.6013	0.0125	-0.1720	-0.0007	-0.0014	0.0000
2	10.01	-6.00	0.6093	0.0052	-0.1781	0.1007	0.0130	-0.0245
3	10.01	-4.00	0.6049	0.0100	-0.1737	0.0569	0.0087	-0.0149
4	10.01	-2.00	0.6026	0.0100	-0.1711	0.0430	0.0029	-0.0101
5	10.01	-0.00	0.6035	0.0125	-0.1712	-0.0143	-0.0012	0.0015
6	10.01	1.99	0.6011	0.0102	-0.1723	-0.0309	-0.0063	0.0081
7	10.01	3.99	0.6029	0.0104	-0.1756	-0.0721	-0.0111	0.0165
8	10.01	5.99	0.6058	0.0058	-0.1798	-0.1023	-0.0157	0.0241
9	10.01	-0.00	0.6002	0.0125	-0.1700	-0.0034	-0.0017	0.0006

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 53

TEMP = 92.
RN/FTX10-6= 0.451267

VEL-FPS= 75.516

PO= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.1844	0.0088	-0.3562	0.0038	-0.0004	0.0004
2	20.10	-6.00	1.1966	0.0016	-0.3654	0.0944	0.0166	-0.0222
3	20.10	-4.00	1.1964	0.0040	-0.3678	0.0724	0.0119	-0.0165
4	20.10	-2.00	1.1920	0.0064	-0.3628	0.0340	0.0061	-0.0082
5	20.10	-0.00	1.1920	0.0088	-0.3591	0.0038	-0.0010	0.0004
6	20.09	1.99	1.1970	0.0066	-0.3644	-0.0401	-0.0067	0.0106
7	20.09	3.99	1.1967	0.0044	-0.3657	-0.0649	-0.0127	0.0180
8	20.09	5.99	1.1942	0.0022	-0.3705	-0.0952	-0.0173	0.0239
9	20.10	-0.00	1.1919	0.0088	-0.3609	0.0065	-0.0007	-0.0001

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 54

TEMP = 92.
RN/FTX10-6 = 0.451348

VEL-FPS = 75.503

PO = 14.4057
MACH = 0.0675

CONF = W2B1V1E(0)SC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0313	0.0399	-0.0143	-0.0055	-0.0014	0.0018
2	0.00	-6.00	0.0403	0.0350	-0.0211	0.0982	0.0043	-0.0232
3	0.00	-4.00	0.0359	0.0374	-0.0175	0.0764	0.0020	-0.0160
4	0.00	-2.00	0.0359	0.0398	-0.0143	0.0354	0.0003	-0.0081
5	0.00	0.00	0.0369	0.0398	-0.0129	-0.0055	-0.0014	0.0012
6	-0.00	1.99	0.0344	0.0376	-0.0153	-0.0301	-0.0037	0.0086
7	-0.00	3.99	0.0428	0.0377	-0.0197	-0.0630	-0.0055	0.0162
8	-0.00	5.99	0.0436	0.0355	-0.0243	-0.1013	-0.0063	0.0234
9	0.00	0.00	0.0357	0.0399	-0.0151	-0.0000	-0.0014	0.0011

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 55

TEMP = 92.

RN/FTX10-6= 0.451364

VEL-FPS= 75.500

POI= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.6100	0.0146	-0.1488	-0.0058	-0.0009	0.0012
2	10.01	-6.00	0.6191	0.0097	-0.1561	0.0956	0.0142	-0.0239
3	10.01	-4.00	0.6137	0.0120	-0.1510	0.0736	0.0085	-0.0177
4	10.01	-2.00	0.6135	0.0145	-0.1501	0.0379	0.0040	-0.0089
5	10.01	-0.00	0.6112	0.0145	-0.1485	0.0132	-0.0002	-0.0015
6	10.01	1.99	0.6130	0.0146	-0.1513	-0.0279	-0.0063	0.0079
7	10.01	3.99	0.6138	0.0124	-0.1550	-0.0581	-0.0112	0.0149
8	10.01	5.99	0.6157	0.0102	-0.1578	-0.1048	-0.0155	0.0214
9	10.01	-0.00	0.6133	0.0146	-0.1500	-0.0031	-0.0009	0.0005

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VSD. LOW-SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 56

TEMP = 92.
RN/FIX10-6= 0.451364

VEL-FPS= 75.500

PU= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.2098	0.0038	-0.3308	-0.0011	0.0017	-0.0016
2	20.10	-6.00	1.2230	-0.0033	-0.3434	0.1003	0.0189	-0.0258
3	20.10	-4.00	1.2209	-0.0010	-0.3371	0.0673	0.0117	-0.0175
4	20.10	-2.00	1.2145	0.0036	-0.3274	0.0263	0.0070	-0.0080
5	20.10	-0.00	1.2111	0.0037	-0.3280	0.0097	0.0012	-0.0025
6	20.09	1.99	1.2139	0.0039	-0.3324	-0.0314	-0.0041	0.0069
7	20.09	3.99	1.2156	0.0017	-0.3398	-0.0590	-0.0108	0.0171
8	20.09	5.99	1.2185	-0.0004	-0.3455	-0.0838	-0.0161	0.0235
9	20.10	-0.00	1.2240	0.0084	-0.3347	-0.0011	0.0027	-0.0011

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PAGE NO. 198

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 57

TEMP = 92.

RN/FTX10-6= 0.451332

VEL-FPS= 75.506

PO= 14.4057
MACH= 0.0675

CONF= W2B1V1E(0)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0259	0.0328	-0.0118	-0.0027	-0.0011	0.0017
2	2.01	-0.00	0.1307	0.0352	-0.0327	-0.0027	-0.0006	0.0011
3	4.03	-0.00	0.2463	0.0353	-0.0589	-0.0028	-0.0005	0.0006
4	5.86	-0.00	0.3553	0.0283	-0.0839	-0.0001	-0.0005	0.0005
5	7.99	-0.00	0.4881	0.0238	-0.1173	-0.0030	-0.0010	0.0005
6	10.01	-0.00	0.6078	0.0239	-0.1495	-0.0031	-0.0006	0.0000
7	12.01	-0.00	0.7243	0.0240	-0.1804	-0.0004	-0.0005	-0.0000
8	14.00	-0.00	0.8461	0.0172	-0.2148	-0.0005	0.0005	0.0004
9	16.03	-0.00	0.9591	0.0174	-0.2488	-0.0034	0.0003	0.0011
10	18.01	-0.00	1.0862	0.0199	-0.2886	0.0045	0.0009	-0.0007
11	20.10	-0.00	1.2012	0.0131	-0.3262	-0.0011	0.0017	-0.0027
12	22.03	-0.00	1.3347	0.0110	-0.3691	0.0040	0.0004	-0.0012
13	23.97	-0.00	1.4354	0.0110	-0.3849	0.0014	0.0016	-0.0007
14	25.97	-0.00	1.5327	0.0180	-0.4021	0.0095	0.0002	-0.0042
15	28.01	-0.00	1.5625	0.0246	-0.3783	0.0022	0.0099	-0.0015
16	0.00	0.00	0.0412	0.0399	-0.0150	-0.0082	-0.0010	0.0019

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PAGE NO. 199

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 58

TEMP = 92.
RN/FTX10-6 = 0.451348

VEL-FPS = 75.503

PO = 14.4057
MACH = 0.0675

CONF = W2B1V1E(10)SC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2653	0.0485	-0.1977	0.0036	-0.0015	0.0002
2	2.01	-0.00	0.3743	0.0509	-0.2226	0.0008	-0.0014	-0.0002
3	4.03	-0.00	0.4974	0.0487	-0.2535	0.0035	-0.0013	-0.0003
4	5.86	-0.00	0.6150	0.0418	-0.2824	0.0034	-0.0016	-0.0003
5	7.99	-0.00	0.7479	0.0372	-0.3149	0.0006	-0.0011	-0.0002
6	10.01	-0.00	0.8665	0.0374	-0.3465	-0.0022	-0.0006	0.0003
7	12.01	-0.00	0.9786	0.0398	-0.3786	-0.0023	-0.0002	-0.0002
8	14.00	-0.00	1.0983	0.0376	-0.4098	0.0057	0.0001	-0.0010
9	16.03	-0.00	1.2050	0.0377	-0.4372	0.0002	0.0009	0.0001
10	18.01	-0.00	1.3182	0.0378	-0.4679	0.0083	0.0005	-0.0011
11	20.10	-0.00	1.4462	0.0334	-0.5117	0.0080	0.0000	-0.0021
12	22.03	-0.00	1.5604	0.0359	-0.5436	0.0079	0.0001	-0.0021
13	23.97	-0.00	1.6288	0.0404	-0.5417	0.0081	0.0012	-0.0017
14	25.97	-0.00	1.6437	0.0541	-0.5063	0.0194	-0.0017	-0.0070
15	28.01	-0.00	1.6863	0.0561	-0.4884	-0.0043	0.0073	0.0005
16	0.00	0.00	0.2773	0.0555	-0.2016	0.0008	-0.0021	0.0003

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 44
QPSF = 6.60

RUN NO. 59

TEMP = 92.
RN/FTX10-6 = 0.451316

VEL-FPS = 75.508

PO = 14.4057
MACH = 0.0675

CONF = W2B1V1E(-10)SC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2137	0.0313	0.1684	-0.0092	-0.0010	0.0022
2	2.01	-0.00	-0.1131	0.0383	0.1505	-0.0092	-0.0005	0.0016
3	4.03	-0.00	-0.0050	0.0360	0.1296	-0.0092	-0.0004	0.0021
4	5.86	-0.00	0.1073	0.0290	0.1066	-0.0011	-0.0008	0.0007
5	7.99	-0.00	0.2304	0.0268	0.0771	-0.0066	-0.0006	0.0009
6	10.01	-0.00	0.3555	0.0222	0.0429	-0.0040	-0.0002	0.0008
7	12.01	-0.00	0.4763	0.0224	0.0093	-0.0014	-0.0001	0.0007
8	14.00	-0.00	0.5980	0.0132	-0.0273	-0.0016	-0.0004	0.0002
9	16.03	-0.00	0.7219	0.0110	-0.0634	-0.0017	-0.0000	0.0007
10	18.01	-0.00	0.8467	0.0089	-0.1038	0.0008	0.0010	0.0001
11	20.10	-0.00	0.9779	0.0022	-0.1515	0.0005	0.0021	-0.0020
12	22.03	-0.00	1.1134	0.0025	-0.1979	-0.0052	0.0002	-0.0007
13	23.97	-0.00	1.2313	-0.0021	-0.2222	0.0029	0.0019	-0.0010
14	25.97	-0.00	1.3319	-0.0021	-0.2394	0.0083	-0.0037	-0.0038
15	28.01	-0.00	1.4143	0.0024	-0.2433	0.0087	0.0047	-0.0040
16	0.00	0.00	-0.2070	0.0383	0.1681	-0.0092	-0.0009	0.0016

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REPORT NO. LSWT 422
PAGE NO. 201

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 60
QPSF = 6.60

RUN NO. 60

TEMP = 91.
RN/FTX10-6= 0.452148

VEL-FPS= 75.475

PO= 14.3860.
MACH= 0.0675

CONF= W281V1E(0)GC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0300	0.0352	-0.0197	0.0026	-0.0008	0.0010
2	2.01	-0.00	0.1298	0.0331	-0.0517	-0.0003	-0.0017	0.0016
3	4.03	-0.00	0.2396	0.0309	-0.0849	-0.0004	-0.0010	0.0011
4	5.86	-0.00	0.3449	0.0240	-0.1172	0.0020	-0.0013	-0.0005
5	7.99	-0.00	0.4689	0.0195	-0.1518	0.0019	-0.0009	-0.0005
6	10.01	-0.00	0.5929	0.0197	-0.1880	0.0017	-0.0015	-0.0005
7	12.01	-0.00	0.7093	0.0222	-0.2181	-0.0037	0.0000	0.0006
8	14.00	-0.00	0.8324	0.0199	-0.2490	-0.0037	0.0004	0.0006
9	16.03	-0.00	0.9747	0.0178	-0.2934	-0.0039	0.0019	0.0006
10	18.01	-0.00	1.1312	0.0110	-0.3397	0.0013	0.0019	0.0004
11	20.10	-0.00	1.2943	0.0019	-0.3864	0.0010	0.0020	-0.0000
12	22.03	-0.00	1.4146	-0.0051	-0.4043	0.0038	0.0021	0.0003
13	23.97	-0.00	1.5006	-0.0123	-0.4024	0.0014	0.0042	0.0019
14	25.97	-0.00	1.5572	-0.0078	-0.3922	0.0043	0.0009	0.0012
15	28.01	-0.00	1.6493	-0.0102	-0.4021	-0.0008	0.0031	0.0035
16	0.00	0.00	0.0386	0.0353	-0.0217	-0.0083	-0.0010	0.0024

REPORT NO. LSWT 422
PAGE NO. 202

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 61
QPSF = 6.60

RUN NO. 61

TEMP = 91.

PD = 14.3860

RN/FTX10-6 = 0.452051

VEL-FPS = 75.491

MACH = 0.0675

CONF = W2B1V1E(0)GC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0234	0.0329	-0.0177	0.0026	-0.0009	0.0010
2	2.01	-0.00	0.1275	0.0308	-0.0533	-0.0057	-0.0010	0.0018
3	4.03	-0.00	0.2240	0.0263	-0.0873	-0.0005	-0.0004	0.0006
4	5.86	-0.00	0.3314	0.0171	-0.1230	-0.0007	-0.0007	0.0001
5	7.99	-0.00	0.4595	0.0103	-0.1639	0.0017	-0.0010	-0.0005
6	10.01	-0.00	0.5810	0.0129	-0.2056	0.0015	-0.0009	-0.0004
7	12.01	-0.00	0.6962	0.0154	-0.2407	0.0068	-0.0002	-0.0012
8	14.00	-0.00	0.8199	0.0156	-0.2807	0.0012	0.0002	0.0000
9	16.03	-0.00	0.9652	0.0112	-0.3327	-0.0017	0.0024	0.0001
10	18.01	-0.00	1.1148	0.0045	-0.3846	0.0034	0.0020	-0.0010
11	20.10	-0.00	1.2732	0.0001	-0.4372	0.0004	0.0022	0.0001
12	22.03	-0.00	1.3888	-0.0067	-0.4646	0.0085	0.0021	-0.0012
13	23.97	-0.00	1.4787	-0.0091	-0.4734	0.0058	0.0010	-0.0006
14	25.97	-0.00	1.5512	-0.0139	-0.4772	0.0007	0.0068	-0.0006
15	28.01	-0.00	1.6217	-0.0093	-0.4783	0.0007	0.0039	-0.0011
16	0.00	0.00	0.0364	0.0353	-0.0220	-0.0056	-0.0007	0.0013

REPORT NO. ISWT 422
PAGE NO. 203

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 62
QPSF = 6.60

RUN NO. 62

TEMP = 91.
RN/FTX10-6= 0.452027

VEL-FPS= 75.495

PO= 14.3811
MACH= 0.0675

CONF= W2B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0342	0.0353	-0.0219	-0.0110	-0.0010	0.0020
2	2.01	-0.00	0.1298	0.0331	-0.0522	-0.0030	-0.0010	0.0012
3	4.03	-0.00	0.2339	0.0286	-0.0867	-0.0086	-0.0002	0.0019
4	5.86	-0.00	0.3370	0.0194	-0.1206	-0.0088	-0.0005	0.0014
5	7.99	-0.00	0.4620	0.0173	-0.1591	-0.0036	-0.0005	0.0007
6	10.01	-0.00	0.5869	0.0198	-0.1988	-0.0010	-0.0008	-0.0004
7	12.01	-0.00	0.6989	0.0223	-0.2304	-0.0011	-0.0000	0.0001
8	14.00	-0.00	0.8229	0.0201	-0.2642	-0.0039	0.0011	0.0007
9	16.03	-0.00	0.9648	0.0158	-0.3165	-0.0015	0.0014	0.0001
10	18.01	-0.00	1.1179	0.0066	-0.3643	0.0036	0.0018	0.0004
11	20.10	-0.00	1.2755	-0.0024	-0.4106	-0.0047	0.0016	0.0007
12	22.03	-0.00	1.4019	-0.0070	-0.4412	-0.0020	0.0027	0.0006
13	23.97	-0.00	1.4866	-0.0118	-0.4430	0.0061	-0.0006	-0.0001
14	25.97	-0.00	1.5616	-0.0073	-0.4412	-0.0015	0.0046	0.0004
15	28.01	-0.00	1.6190	-0.0097	-0.4378	-0.0042	0.0011	0.0016
16	0.00	0.00	0.0299	0.0353	-0.0215	-0.0056	-0.0011	0.0013

REPORT NO. LSWT 422
PAGE NO. 204

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 63

TEMP = 91.

PO = 14.3811

RN/FTX10-6 = 0.452027

VEL-FPS = 75.495

MACH = 0.0675

CONF = W2B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0278	0.0376	-0.0187	-0.0055	-0.0011	0.0013
2	0.00	-6.00	0.0388	0.0328	-0.0288	0.0954	0.0040	-0.0231
3	0.00	-4.00	0.0324	0.0351	-0.0223	0.0626	0.0022	-0.0144
4	0.00	-2.00	0.0312	0.0352	-0.0212	0.0326	0.0006	-0.0075
5	0.00	0.00	0.0288	0.0376	-0.0215	-0.0001	-0.0011	0.0011
6	-0.00	1.99	0.0341	0.0353	-0.0223	-0.0384	-0.0026	0.0088
7	-0.00	3.99	0.0326	0.0331	-0.0262	-0.0685	-0.0042	0.0180
8	-0.00	5.99	0.0388	0.0309	-0.0312	-0.1013	-0.0053	0.0245
9	0.00	0.00	0.0321	0.0352	-0.0203	-0.0056	-0.0011	0.0013

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PAGE NO. 205

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE. 0
QPSF = 6.60

RUN NO. 64

TEMP = 94.
RN/FTX10-6= 0.448896

VEL-FPS= 75.703

PD= 14.3811
MACH= 0.0677

CONF= H2B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5858	0.0151	-0.1976	-0.0010	-0.0008	-0.0004
2	10.01	-6.00	0.5937	0.0079	-0.2042	0.0948	0.0130	-0.0237
3	10.01	-4.00	0.5937	0.0103	-0.2009	0.0620	0.0085	-0.0156
4	10.01	-2.00	0.5881	0.0127	-0.1982	0.0263	0.0037	-0.0078
5	10.01	-0.00	0.5879	0.0198	-0.1993	-0.0038	-0.0011	-0.0003
6	10.01	1.99	0.5888	0.0176	-0.1997	-0.0449	-0.0058	0.0086
7	10.01	3.99	0.5885	0.0154	-0.2019	-0.0670	-0.0105	0.0154
8	10.01	5.99	0.5925	0.0108	-0.2080	-0.1054	-0.0147	0.0227
9	10.01	-0.00	0.5901	0.0198	-0.1999	-0.0065	-0.0004	-0.0002

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 65

TEMP = 96.
RN/FTX10-6= 0.446824

VEL-FPS= 75.843

PO= 14.3811
MACH= 0.0678

CONF= W2B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.2733	-0.0024	-0.4109	-0.0019	0.0026	0.0001
2	20.10	-6.00	1.2488	-0.0097	-0.4044	0.1102	0.0113	-0.0258
3	20.10	-4.00	1.2585	-0.0049	-0.4061	0.0691	0.0069	-0.0174
4	20.10	-2.00	1.2692	-0.0048	-0.4087	0.0417	0.0039	-0.0094
5	20.10	-0.00	1.2712	-0.0024	-0.4094	-0.0019	0.0019	0.0006
6	20.09	1.99	1.2699	-0.0047	-0.4096	-0.0430	-0.0004	0.0101
7	20.09	3.99	1.2567	-0.0070	-0.4033	-0.0730	-0.0026	0.0187
8	20.09	5.99	1.2457	-0.0069	-0.4001	-0.1059	-0.0068	0.0263
9	20.10	-0.00	1.2832	-0.0000	-0.4127	-0.0019	0.0020	0.0001

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PAGE NO. 207

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 62
QPSF = 6.60

RUN NO. 66

TEMP = 95.

PD= 14.3811

RN/FTX10-6= 0.447882

VEL-FPS= 75.769

MACH= 0.0677

CONF= W2B1V1E(10)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2702	0.0533	-0.2104	-0.0047	-0.0024	0.0010
2	2.01	-0.00	0.3711	0.0488	-0.2447	-0.0021	-0.0021	0.0004
3	4.03	-0.00	0.4807	0.0420	-0.2796	-0.0023	-0.0020	0.0004
4	5.86	-0.00	0.5859	0.0329	-0.3160	0.0001	-0.0020	-0.0001
5	7.99	-0.00	0.7227	0.0378	-0.3617	-0.0055	-0.0011	-0.0004
6	10.01	-0.00	0.8314	0.0379	-0.3926	-0.0001	-0.0011	-0.0001
7	12.01	-0.00	0.9383	0.0427	-0.4165	-0.0001	-0.0003	-0.0001
8	14.00	-0.00	1.0600	0.0429	-0.4534	-0.0003	0.0000	-0.0001
9	16.03	-0.00	1.2170	0.0432	-0.5121	-0.0032	0.0025	0.0004
10	18.01	-0.00	1.3647	0.0364	-0.5573	-0.0035	0.0009	0.0005
11	20.10	-0.00	1.5138	0.0272	-0.5974	0.0017	0.0016	0.0008
12	22.03	-0.00	1.5836	0.0200	-0.5887	-0.0060	0.0038	0.0009
13	23.97	-0.00	1.6523	0.0245	-0.5807	0.0022	0.0018	0.0001
14	25.97	-0.00	1.6972	0.0265	-0.5607	-0.0054	0.0044	0.0024
15	28.01	-0.00	1.7473	0.0263	-0.5503	0.0081	-0.0036	-0.0006
16	0.00	0.00	0.2789	0.0533	-0.2134	-0.0019	-0.0021	0.0004

B

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 62
QPSF = 6.60

RUN NO. 67

TEMP = 93.

PO = 14.3713

RN/FIX10-G = 0.449849

VEL-FPS = 75.649

MACH = 0.0676

CONF = W2B1V1E(-10)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2189	0.0359	0.1728	-0.0037	-0.0007	0.0009
2	2.01	-0.00	-0.1170	0.0338	0.1383	-0.0067	-0.0009	0.0015
3	4.03	-0.00	-0.0150	0.0339	0.1042	-0.0068	-0.0005	0.0015
4	5.86	-0.00	0.0860	0.0294	0.0740	-0.0070	-0.0004	0.0015
5	7.99	-0.00	0.2055	0.0226	0.0384	-0.0044	-0.0001	0.0009
6	10.01	-0.00	0.3272	0.0181	0.0016	-0.0073	-0.0003	-0.0000
7	12.01	-0.00	0.4564	0.0183	-0.0395	-0.0102	-0.0001	0.0011
8	14.00	-0.00	0.5739	0.0114	-0.0708	-0.0022	-0.0002	0.0003
9	16.03	-0.00	0.7064	0.0093	-0.1127	-0.0051	0.0005	0.0004
10	18.01	-0.00	0.8586	-0.0021	-0.1580	0.0028	0.0011	-0.0009
11	20.10	-0.00	1.0203	-0.0112	-0.2102	-0.0000	0.0023	0.0008
12	22.03	-0.00	1.1595	-0.0157	-0.2497	0.0051	0.0020	0.0000
13	23.97	-0.00	1.2805	-0.0250	-0.2770	0.0051	0.0024	0.0000
14	25.97	-0.00	1.3608	-0.0227	-0.2801	0.0051	0.0002	-0.0004
15	28.01	-0.00	1.4321	-0.0322	-0.2845	0.0053	0.0019	-0.0000
16	0.00	0.00	-0.2081	0.0359	0.1692	-0.0065	-0.0013	0.0015

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 1
GPSF = 6.60

RUN NO. 68

TEMP = 94.
KN/FTX10-6 = 0.448670

VEL-FPS = 75.741

PD = 14.3615
MACH = 0.0677

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0256	0.0352	-0.0189	-0.0028	-0.0008	0.0012
2	2.01	-0.00	0.1218	0.0402	-0.0598	-0.0031	-0.0007	0.0012
3	4.03	-0.00	0.2277	0.0264	-0.1035	-0.0034	-0.0004	0.0012
4	5.86	-0.00	0.3292	0.0127	-0.1470	-0.0010	-0.0007	0.0001
5	7.99	-0.00	0.4458	0.0154	-0.2000	-0.0014	-0.0003	0.0007
6	10.01	-0.00	0.5625	0.0111	-0.2500	0.0009	-0.0007	0.0002
7	12.01	-0.00	0.6672	0.0114	-0.2951	-0.0020	-0.0005	0.0019
8	14.00	-0.00	0.7730	0.0070	-0.3419	-0.0051	0.0004	0.0015
9	16.03	-0.00	0.9002	0.0051	-0.4035	-0.0001	0.0001	0.0014
10	18.01	-0.00	1.0406	0.0009	-0.4655	0.0021	0.0001	0.0014
11	20.10	-0.00	1.1737	-0.0104	-0.5174	-0.0007	0.0032	0.0025
12	22.03	-0.00	1.2200	-0.0152	-0.5174	-0.0059	0.0067	0.0031
13	23.97	-0.00	1.1768	0.0007	-0.4732	0.0078	-0.0004	0.0000
14	25.97	-0.00	1.1547	0.0099	-0.4527	0.0052	-0.0006	-0.0009
15	28.01	-0.00	1.1109	0.0214	-0.4228	0.0055	0.0000	-0.0026
16	0.00	0.00	0.0364	0.0376	-0.0226	-0.0056	-0.0007	0.0013

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 69

TEMP. = 92.
RN/FTX10-6 = 0.450726

VEL-FPS = 75.607

PD = 14.3615
MACH = 0.0676

CONF = W2B1V1E(0)H2F(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.0682	0.0508	0.0701	0.0007	-0.0007	-0.0001
2	2.01	-0.00	0.0363	0.0488	0.0214	0.0031	-0.0004	-0.0007
3	4.03	-0.00	0.1486	0.0398	-0.0285	0.0027	-0.0007	-0.0006
4	5.86	-0.00	0.2478	0.0284	-0.0728	-0.0003	-0.0010	-0.0005
5	7.99	-0.00	0.3730	0.0218	-0.1294	-0.0007	-0.0006	0.0000
6	10.01	-0.00	0.4843	0.0268	-0.1775	-0.0037	-0.0005	0.0002
7	12.01	-0.00	0.5838	0.0224	-0.2183	-0.0040	-0.0001	0.0007
8	14.00	-0.00	0.6801	0.0226	-0.2543	-0.0042	-0.0007	0.0013
9	16.03	-0.00	0.7743	0.0228	-0.2902	-0.0017	-0.0003	0.0007
10	18.01	-0.00	0.9008	0.0185	-0.3428	0.0033	-0.0004	0.0006
11	20.10	-0.00	1.0148	0.0093	-0.3802	-0.0022	0.0017	0.0018
12	22.03	-0.00	1.0418	0.0091	-0.3654	-0.0181	0.0057	0.0060
13	23.97	-0.00	1.0229	0.0230	-0.3486	-0.0017	0.0018	0.0006
14	25.97	-0.00	1.0206	0.0301	-0.3501	-0.0045	0.0022	-0.0002
15	28.01	-0.00	1.0237	0.0254	-0.3534	-0.0018	0.0008	0.0001
16	0.00	0.00	-0.0574	0.0532	0.0660	-0.0047	-0.0009	0.0005

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

04/30/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 70

TEMP = 94.

PO = 14,3615

RN/FTX10-6 = 0.448638

VEL-FPS = 75.747

MACH = 0.0677

CONF = W2B1V1E(-10)H2F(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2770	0.0518	0.2275	-0.0031	-0.0006	0.0013
2	2.01	-0.00	-0.1755	0.0544	0.1821	-0.0007	-0.0002	0.0002
3	4.03	-0.00	-0.0611	0.0454	0.1306	-0.0039	-0.0008	0.0014
4	5.86	-0.00	0.0316	0.0364	0.0865	-0.0069	-0.0001	0.0015
5	7.99	-0.00	0.1504	0.0297	0.0375	0.0008	-0.0005	0.0003
6	10.01	-0.00	0.2649	0.0277	-0.0128	-0.0049	-0.0001	0.0010
7	12.01	-0.00	0.3741	0.0233	-0.0580	-0.0025	-0.0001	0.0010
8	14.00	-0.00	0.4822	0.0213	-0.1009	-0.0055	-0.0003	0.0017
9	16.03	-0.00	0.5722	0.0191	-0.1327	-0.0030	-0.0013	0.0021
10	18.01	-0.00	0.6902	0.0124	-0.1785	-0.0087	0.0004	0.0023
11	20.10	-0.00	0.8222	0.0080	-0.2296	-0.0089	0.0028	0.0023
12	22.03	-0.00	0.8985	0.0034	-0.2486	-0.0089	0.0039	0.0034
13	23.97	-0.00	0.9027	0.0125	-0.2291	-0.0140	0.0051	0.0035
14	25.97	-0.00	0.9015	0.0172	-0.2324	-0.0004	0.0049	0.0003
15	28.01	-0.00	0.8936	0.0197	-0.2376	0.0020	0.0025	-0.0017
16	0.00	0.00	-0.2705	0.0541	0.2255	-0.0113	-0.0005	0.0021

REPORT NO. LSWT 422
PAGE NO. 212

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 24
QPSF = 6.60

RUN NO. 71

TEMP = 94.
RN/FTX10-6= 0.448509

VEL-FPS= 75.769

PO= 14.3516
MACH= 0.0677

CONF= W2B1V1E(10)H2F(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.1541	0.0827	-0.1019	0.0019	-0.0017	-0.0004
2	2.01	-0.00	0.2599	0.0784	-0.1488	-0.0011	-0.0012	0.0002
3	4.03	-0.00	0.3764	0.0671	-0.2023	-0.0015	-0.0016	-0.0007
4	5.86	-0.00	0.4831	0.0581	-0.2528	-0.0019	-0.0019	-0.0006
5	7.99	-0.00	0.6071	0.0562	-0.3109	-0.0133	-0.0010	0.0013
6	10.01	-0.00	0.7109	0.0565	-0.3540	-0.0081	-0.0010	0.0017
7	12.01	-0.00	0.8020	0.0566	-0.3850	-0.0082	-0.0003	0.0017
8	14.00	-0.00	0.8802	0.0591	-0.4109	-0.0056	0.0003	0.0011
9	16.03	-0.00	0.9882	0.0594	-0.4576	-0.0086	0.0004	0.0023
10	18.01	-0.00	1.1153	0.0528	-0.5102	-0.0062	0.0021	0.0022
11	20.10	-0.00	1.1903	0.0480	-0.5187	-0.0141	0.0073	0.0045
12	22.03	-0.00	1.1378	0.0475	-0.4597	-0.0163	0.0034	0.0051
13	23.97	-0.00	1.1316	0.0591	-0.4526	-0.0190	0.0032	0.0046
14	25.97	-0.00	1.1228	0.0662	-0.4532	0.0079	-0.0018	-0.0004
15	28.01	-0.00	1.1357	0.0615	-0.4610	-0.0109	0.0050	0.0006
16	0.00	0.00	0.1595	0.0828	-0.1046	-0.0063	-0.0019	0.0004

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REPORT NO. LSWT 422
PAGE NO. 213

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 72
OPSF = 6.60

RUN NO. 72

TEMP = 90.
RN/FTX10-6= 0.452976

VEL-FPS= 75.443

PO= 14.3713
MACH= 0.0675

CONF= WIB1V1E(0)H2F(1,-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYH
1	0.00	0.00	-0.0651	0.0555	0.0664	0.0007	-0.0010	0.0004
2	2.01	-0.00	0.0350	0.0465	0.0183	0.0003	-0.0013	0.0010
3	4.03	-0.00	0.1405	0.0399	-0.0354	-0.0027	-0.0006	0.0006
4	5.86	-0.00	0.2461	0.0356	-0.0869	-0.0031	-0.0009	0.0007
5	7.99	-0.00	0.3602	0.0220	-0.1435	-0.0009	-0.0006	0.0006
6	10.01	-0.00	0.4755	0.0130	-0.2007	-0.0040	-0.0006	0.0013
7	12.01	-0.00	0.5756	0.0087	-0.2509	-0.0045	-0.0009	0.0014
8	14.00	-0.00	0.6618	0.0067	-0.2936	-0.0020	0.0007	0.0019
9	16.03	-0.00	0.7222	0.0163	-0.3231	0.0031	-0.0016	-0.0003
10	18.01	-0.00	0.7630	0.0282	-0.3452	0.0002	-0.0012	0.0008
11	20.10	-0.00	0.7973	0.0354	-0.3676	0.0028	0.0007	0.0002
12	22.03	-0.00	0.7928	0.0518	-0.3720	-0.0023	0.0072	0.0003
13	23.97	-0.00	0.8107	0.0496	-0.3896	0.0026	0.0014	0.0002
14	25.97	-0.00	0.8523	0.0475	-0.4150	-0.0191	0.0041	0.0085
15	28.01	-0.00	0.8645	0.0568	-0.4143	-0.0056	0.0010	0.0065
16	0.00	0.00	-0.0597	0.0508	0.0657	-0.0074	-0.0006	0.0012

REPORT NO. LSMT 422
PAGE NO. 214

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 72
QPSF = 6.60

RUN NO. 73

TEMP = 90.
RN/FTX10-6= 0.452813

VEL-FPS= 75.470

PO= 14.3615
MACH= 0.0675

CONF= W1B1V1E(0)H2F(1,10)

PT	ALPHA	BETA	CN	CA	CM	GY	CRM	CYM
1	0.00	0.00	0.0782	0.0475	-0.0741	0.0020	-0.0015	0.0006
2	2.01	-0.00	0.1772	0.0455	-0.1248	-0.0010	-0.0011	0.0007
3	4.03	-0.00	0.2881	0.0412	-0.1800	-0.0042	-0.0007	0.0009
4	5.86	-0.00	0.3926	0.0346	-0.2323	-0.0046	-0.0007	0.0010
5	7.99	-0.00	0.5110	0.0234	-0.2920	-0.0024	-0.0007	0.0004
6	10.01	-0.00	0.6165	0.0167	-0.3453	-0.0028	-0.0004	0.0010
7	12.01	-0.00	0.7231	0.0125	-0.3992	-0.0059	-0.0006	0.0017
8	14.00	-0.00	0.8178	0.0128	-0.4473	0.0018	-0.0000	0.0010
9	16.03	-0.00	0.8921	0.0248	-0.4864	0.0042	-0.0007	0.0004
10	18.01	-0.00	0.9289	0.0272	-0.4989	-0.0039	-0.0009	0.0023
11	20.10	-0.00	0.9434	0.0342	-0.4965	-0.0037	0.0038	0.0011
12	22.03	-0.00	0.9123	0.0503	-0.4672	-0.0062	0.0016	0.0023
13	23.97	-0.00	0.8863	0.0501	-0.4447	-0.0059	0.0012	0.0028
14	25.97	-0.00	0.8771	0.0546	-0.4292	-0.0057	0.0033	0.0032
15	28.01	-0.00	0.8880	0.0570	-0.4300	-0.0273	0.0056	0.0098
16	0.00	0.00	0.0814	0.0451	-0.0747	-0.0089	-0.0014	0.0015

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 72
QPSF = 6.60

RUN NO. 74

TEMP. = 90.

PO = 14.3615

RN/FTX10-6 = 0.452781

VEL-FPS = 75.476

MACH = 0.0675

CONF = W1B1V1E(0)H2F(1,0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0097	0.0375	-0.0052	-0.0000	-0.0015	0.0005
2	2.01	-0.00	0.1109	0.0355	-0.0555	-0.0031	-0.0011	0.0012
3	4.03	-0.00	0.2143	0.0265	-0.1077	-0.0008	-0.0014	0.0001
4	5.86	-0.00	0.3241	0.0269	-0.1625	-0.0040	-0.0017	0.0008
5	7.99	-0.00	0.4426	0.0110	-0.2211	-0.0071	-0.0010	0.0015
6	10.01	-0.00	0.5502	0.0020	-0.2759	-0.0021	-0.0014	0.0009
7	12.01	-0.00	0.6493	0.0001	-0.3256	0.0001	-0.0017	0.0003
8	14.00	-0.00	0.7440	-0.0018	-0.3736	-0.0029	-0.0007	0.0015
9	16.03	-0.00	0.8011	0.0124	-0.4040	0.0050	-0.0007	-0.0002
10	18.01	-0.00	0.8454	0.0195	-0.4229	0.0021	-0.0029	0.0009
11	20.10	-0.00	0.8574	0.0312	-0.4256	0.0023	0.0014	-0.0001
12	22.03	-0.00	0.8360	0.0545	-0.4126	-0.0109	0.0050	0.0034
13	23.97	-0.00	0.8479	0.0522	-0.4167	-0.0005	-0.0048	0.0021
14	25.97	-0.00	0.8739	0.0546	-0.4266	-0.0111	0.0034	0.0050
15	28.01	-0.00	0.8786	0.0592	-0.4210	-0.0029	-0.0000	0.0043
16	0.00	0.00	0.0119	0.0375	-0.0053	-0.0054	-0.0014	0.0012

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 75
QPSF = 6.60

RUN NO. 75

TEMP = 102.
RN/FTX10-6= 0.440464

VEL-FPS= 76.300

PO= 14.3615
MACH= 0.0682

CONF= W1B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0288	0.0282	-0.0208	-0.0056	-0.0014	0.0013
2	2.01	-0.00	0.1281	0.0286	-0.0654	-0.0086	-0.0010	0.0019
3	4.03	-0.00	0.2294	0.0242	-0.1138	-0.0063	-0.0013	0.0014
4	5.86	-0.00	0.3199	0.0129	-0.1575	-0.0094	-0.0016	0.0021
5	7.99	-0.00	0.4331	0.0062	-0.2114	-0.0071	-0.0017	0.0015
6	10.01	-0.00	0.5442	0.0019	-0.2638	-0.0047	-0.0013	0.0009
7	12.01	-0.00	0.6410	0.0000	-0.3133	-0.0078	-0.0009	0.0016
8	14.00	-0.00	0.7304	0.0003	-0.3587	-0.0027	-0.0003	0.0004
9	16.03	-0.00	0.8002	0.0076	-0.3991	-0.0056	0.0024	0.0016
10	18.01	-0.00	0.8260	0.0218	-0.4131	-0.0086	-0.0011	0.0023
11	20.10	-0.00	0.8778	0.0266	-0.4372	-0.0060	0.0008	0.0011
12	22.03	-0.00	0.8702	0.0407	-0.4343	-0.0113	0.0026	0.0029
13	23.97	-0.00	0.8682	0.0406	-0.4314	-0.0086	0.0002	0.0023
14	25.97	-0.00	0.8715	0.0523	-0.4301	-0.0275	0.0033	0.0083
15	28.01	-0.00	0.9124	0.0572	-0.4534	-0.0167	0.0048	0.0041
16	0.00	0.00	0.0342	0.0306	-0.0222	-0.0083	-0.0014	0.0019

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 76

TEMP = 102.

RN/FTX10-6= 0.440543

VEL-FPS= 76.286

PO= 14.3615
MACH= 0.0682

CONF= W1B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0320	0.0329	-0.0221	-0.0056	-0.0007	0.0023
2	0.00	-6.00	0.0388	0.0258	-0.0286	0.1008	0.0036	-0.0238
3	0.00	-4.00	0.0323	0.0305	-0.0245	0.0708	0.0020	-0.0168
4	0.00	-2.00	0.0300	0.0305	-0.0219	0.0298	0.0006	-0.0074
5	0.00	0.00	0.0310	0.0329	-0.0216	-0.0001	-0.0012	0.0006
6	-0.00	1.99	0.0329	0.0306	-0.0230	-0.0275	-0.0031	0.0085
7	-0.00	3.99	0.0359	0.0284	-0.0268	-0.0685	-0.0045	0.0180
8	-0.00	5.99	0.0388	0.0262	-0.0315	-0.0959	-0.0061	0.0248
	0.00	0.00	0.0309	0.0306	-0.0219	-0.0056	-0.0011	0.0018

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PAGE NO. 218

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 77

TEMP = 104.

PU= 14.36-15

RN/FTX10-6= 0.438486

VEL-FPS= 76.433

MACH= 0.0683

CONF= W1B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRH	CYM
1	10.01	-0.00	0.5453	-0.0050	-0.2636	-0.0047	-0.0014	0.0009
2	10.01	-6.00	0.5532	-0.0075	-0.2713	0.0991	0.0080	-0.0230
3	10.01	-4.00	0.5477	-0.0075	-0.2671	0.0608	0.0052	-0.0153
4	10.01	-2.00	0.5519	-0.0004	-0.2671	0.0389	0.0013	-0.0091
5	10.01	-0.00	0.5496	0.0019	-0.2656	-0.0020	-0.0014	0.0009
6	10.01	1.99	0.5536	-0.0002	-0.2694	-0.0404	-0.0045	0.0108
7	10.01	3.99	0.5523	-0.0001	-0.2712	-0.0678	-0.0078	0.0161
8	10.01	5.99	0.5563	-0.0023	-0.2760	-0.1007	-0.0106	0.0237
9	10.01	-0.00	0.5517	-0.0003	-0.2671	0.0033	-0.0011	0.0001

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PAGE NO. 219

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 78

TEMP = 106.

RM/FTX10-6= 0.436493

VEL-FPS= 76.571

PO= 14.36-15
MACH= 0.0685

CONF= W1B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	0.8627	0.0289	-0.4306	-0.0032	-0.0011	0.0022
2	20.10	-6.00	0.9007	0.0125	-0.4497	0.0815	0.0075	-0.0109
3	20.10	-4.00	0.8832	0.0219	-0.4436	0.0568	0.0039	-0.0073
4	20.10	-2.00	0.8789	0.0266	-0.4397	0.0349	0.0009	-0.0033
5	20.10	-0.00	0.8702	0.0289	-0.4358	0.0049	0.0020	0.0002
6	20.09	1.99	0.8734	0.0244	-0.4358	-0.0226	-0.0042	0.0039
7	20.09	3.99	0.8784	0.0222	-0.4431	-0.0528	-0.0071	0.0088
8	20.09	5.99	0.8999	0.0129	-0.4542	-0.0800	-0.0017	0.0128
9	20.10	-0.00	0.8777	0.0267	-0.4386	0.0020	-0.0026	0.0004

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 75
QPSF = 6.60

RUN NO. 79

TEMP = 104.
RN/FTX10-6 = 0.438486

VEL-FPS = 76.433

PU = 14.3615
MACH = 0.0683

CONF = WIBIVLE(-10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2156	0.0335	0.1731	-0.0092	-0.0006	0.0021
2	2.01	-0.00	-0.1164	0.0386	0.1259	-0.0041	-0.0010	0.0009
3	4.03	-0.00	-0.0172	0.0296	0.0802	-0.0153	-0.0008	0.0024
4	5.86	-0.00	0.0755	0.0228	0.0376	-0.0130	-0.0011	0.0019
5	7.99	-0.00	0.1854	0.0209	-0.0151	-0.0079	-0.0008	0.0017
6	10.01	-0.00	0.2954	0.0095	-0.0658	-0.0056	-0.0015	0.0012
7	12.01	-0.00	0.4009	0.0076	-0.1212	-0.0060	-0.0008	0.0013
8	14.00	-0.00	0.5042	0.0010	-0.1743	-0.0009	-0.0006	0.0001
9	16.03	-0.00	0.5911	0.0034	-0.2253	-0.0068	0.0005	0.0019
10	18.01	-0.00	0.6533	0.0181	-0.2639	-0.0044	-0.0004	0.0008
11	20.10	-0.00	0.7115	0.0206	-0.2930	0.0062	-0.0009	-0.0015
12	22.03	-0.00	0.7101	0.0348	-0.2980	-0.0101	0.0000	0.0038
13	23.97	-0.00	0.7275	0.0324	-0.3030	-0.0234	0.0089	0.0056
14	25.97	-0.00	0.7189	0.0464	-0.2981	0.0115	-0.0056	0.0010
15	28.01	-0.00	0.7533	0.0466	-0.3170	-0.0049	-0.0030	0.0015
16	0.00	0.00	-0.2135	0.0336	0.1716	-0.0147	-0.0012	0.0023

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PAGE NO. 221

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 75
QPSF = 6.60

RUN NO. 80

TEMP = 104.

PO = 14.3713

RN/FTX10-6 = 0.438675

VEL-FPS = 76.400

MACH = 0.0683

CONF = W1B1V1E(10)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2765	0.0511	-0.2178	0.0006	-0.0025	-0.0001
2	2.01	-0.00	0.3768	0.0467	-0.2643	0.0003	-0.0025	0.0009
3	4.03	-0.00	0.4770	0.0354	-0.3128	-0.0028	-0.0024	0.0005
4	5.86	-0.00	0.5817	0.0263	-0.3604	-0.0004	-0.0028	0.0005
5	7.99	-0.00	0.6926	0.0221	-0.4165	-0.0035	-0.0017	0.0007
6	10.01	-0.00	0.7972	0.0201	-0.4652	-0.0012	-0.0021	0.0006
7	12.01	-0.00	0.8866	0.0134	-0.5094	0.0011	-0.0021	0.0001
8	14.00	-0.00	0.9394	0.0253	-0.5352	0.0036	-0.0031	0.0000
9	16.03	-0.00	0.9814	0.0348	-0.5563	-0.0018	-0.0002	0.0018
10	18.01	-0.00	1.0117	0.0443	-0.5692	0.0033	-0.0056	0.0001
11	20.10	-0.00	1.0045	0.0558	-0.5592	-0.0017	0.0001	0.0029
12	22.03	-0.00	0.9500	0.0696	-0.5211	-0.0095	-0.0006	0.0036
13	23.97	-0.00	0.9726	0.0650	-0.5338	-0.0069	-0.0017	0.0046
14	25.97	-0.00	1.0019	0.0767	-0.5428	-0.0256	0.0080	0.0083
15	28.01	-0.00	1.0257	0.0862	-0.5552	0.0094	0.0011	0.0003
16	0.00	0.00	0.2776	0.0511	-0.2179	-0.0048	-0.0024	0.0011

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 81
QPSF = 6.60

RUN NO. 81

TEMP = 102.
RN/FTX10-6= 0.440653

VEL-FPS= 76.267

P01= 14.3713
MACH= 0.0682

CONF= W1B1V1E(10)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.2721	0.0511	-0.2179	0.0006	-0.0022	0.0003
2	2.01	-0.00	0.3707	0.0489	-0.2531	0.0031	-0.0018	-0.0002
3	4.03	-0.00	0.4790	0.0445	-0.2932	-0.0052	-0.0016	0.0006
4	5.86	-0.00	0.5897	0.0353	-0.3309	0.0027	-0.0017	-0.0012
5	7.99	-0.00	0.7133	0.0309	-0.3739	0.0052	-0.0014	-0.0013
6	10.01	-0.00	0.8273	0.0288	-0.4112	0.0022	-0.0009	-0.0017
7	12.01	-0.00	0.9347	0.0243	-0.4460	0.0020	-0.0015	-0.0012
8	14.00	-0.00	1.0262	0.0291	-0.4692	-0.0007	-0.0020	-0.0005
9	16.03	-0.00	1.0929	0.0384	-0.4795	-0.0006	-0.0016	-0.0006
10	18.01	-0.00	1.1564	0.0408	-0.4889	0.0020	-0.0022	-0.0001
11	20.10	-0.00	1.2104	0.0453	-0.4879	0.0050	-0.0012	0.0002
12	22.03	-0.00	1.2343	0.0545	-0.4703	0.0104	-0.0085	0.0011
13	23.97	-0.00	1.2713	0.0543	-0.4571	0.0134	-0.0085	-0.0000
14	25.97	-0.00	1.2681	0.0703	-0.4298	-0.0075	0.0013	0.0046
15	28.01	-0.00	1.3175	0.0703	-0.4343	0.0032	-0.0028	0.0043
16	0.00	0.00	0.2776	0.0534	-0.2175	-0.0020	-0.0025	0.0004

REPORT NO. LSWT 422
PAGE NO. 223

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 81
QPSF = 6.60

RUN NO. 82

TEMP = 102.
RN/FTX10-6= 0.440622

VEL-FPS= 76.273

PO= 14.3713
MACH= 0.0682

CONF= W1B1V1E(-10)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2234	0.0336	0.1723	-0.0010	-0.0011	0.0008
2	2.01	-0.00	-0.1216	0.0338	0.1344	-0.0094	-0.0009	0.0016
3	4.03	-0.00	-0.0186	0.0364	0.0969	-0.0097	-0.0011	0.0011
4	5.86	-0.00	0.0790	0.0225	0.0659	-0.0017	-0.0009	0.0003
5	7.99	-0.00	0.2071	0.0204	0.0253	-0.0073	-0.0007	0.0011
6	10.01	-0.00	0.3200	0.0089	-0.0106	-0.0048	-0.0004	0.0004
7	12.01	-0.00	0.4370	0.0044	-0.0531	-0.0023	-0.0007	-0.0001
8	14.00	-0.00	0.5553	0.0047	-0.0931	0.0001	-0.0007	-0.0007
9	16.03	-0.00	0.6606	0.0025	-0.1269	-0.0000	-0.0013	-0.0001
10	18.01	-0.00	0.7701	0.0051	-0.1644	-0.0056	-0.0001	0.0016
11	20.10	-0.00	0.8540	0.0075	-0.1842	-0.0002	-0.0014	0.0020
12	22.03	-0.00	0.9162	0.0093	-0.1968	-0.0003	-0.0023	0.0025
13	23.97	-0.00	0.9712	0.0144	-0.1995	-0.0028	-0.0009	0.0031
14	25.97	-0.00	1.0184	0.0214	-0.2070	0.0001	0.0061	-0.0014
15	28.01	-0.00	1.0805	0.0238	-0.2181	0.0000	0.0018	0.0034
16	0.00	0.00	-0.2093	0.0383	0.1673	-0.0066	-0.0020	0.0010

REPORT NO. LSWT 422
PAGE NO. 224

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 81
QPSF = 6.60

RUN NO. 83

TEMP = 103.
RN/FTX10-6= 0.439781

VEL-FPS= 76.313

PO= 14.3811
MACH= 0.0682

CONF= W1B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0265	0.0283	-0.0225	-0.0084	-0.0014	0.0025
2	2.01	-0.00	0.1240	0.0261	-0.0581	-0.0058	-0.0007	0.0008
3	4.03	-0.00	0.2291	0.0240	-0.0956	-0.0060	-0.0006	0.0013
4	5.86	-0.00	0.3365	0.0149	-0.1321	-0.0008	-0.0010	0.0001
5	7.99	-0.00	0.4548	0.0057	-0.1699	-0.0037	-0.0002	0.0002
6	10.01	-0.00	0.5731	0.0036	-0.2098	-0.0012	-0.0009	-0.0003
7	12.01	-0.00	0.6837	-0.0008	-0.2482	-0.0015	-0.0012	-0.0003
8	14.00	-0.00	0.7956	0.0017	-0.2826	-0.0043	-0.0003	0.0002
9	16.03	-0.00	0.8805	0.0041	-0.3053	-0.0044	-0.0003	0.0002
10	18.01	-0.00	0.9857	0.0113	-0.3403	-0.0018	-0.0009	0.0012
11	20.10	-0.00	1.0407	0.0136	-0.3435	0.0009	0.0001	0.0006
12	22.03	-0.00	1.0838	0.0205	-0.3389	0.0010	-0.0021	0.0022
13	23.97	-0.00	1.1432	0.0227	-0.3414	-0.0014	-0.0002	0.0027
14	25.97	-0.00	1.1601	0.0320	-0.3322	-0.0096	-0.0047	0.0079
15	28.01	-0.00	1.2193	0.0366	-0.3405	-0.0065	0.0019	0.0033
16	0.00	0.00	0.0374	0.0330	-0.0243	-0.0138	-0.0013	0.0026

REPORT NO. LSWT 422
PAGE NO. 225

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 84

TEMP = 102.
RN/FTX10-6= 0.440780

VEL-FPS= 76.245

PO= 14.3811
MACH= 0.0682

CONF= W1B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0341	0.0400	-0.0262	-0.0029	-0.0014	0.0012
2	0.00	-6.00	0.0366	0.0351	-0.0297	0.0953	0.0033	-0.0231
3	0.00	-4.00	0.0376	0.0375	-0.0275	0.0681	0.0021	-0.0151
4	0.00	-2.00	0.0365	0.0399	-0.0241	0.0298	0.0003	-0.0079
5	0.00	0.00	0.0341	0.0400	-0.0243	-0.0110	-0.0006	0.0020
6	-0.00	1.99	0.0350	0.0377	-0.0271	-0.0357	-0.0030	0.0088
7	-0.00	3.99	0.0358	0.0378	-0.0290	-0.0740	-0.0041	0.0182
8	-0.00	5.99	0.0442	0.0356	-0.0341	-0.1041	-0.0060	0.0257
9	0.00	0.00	0.0363	0.0400	-0.0245	-0.0138	-0.0013	0.0026

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0

QPSF = 6.60

RUN NO. 85

TEMP = 103.

RN/FTX10-6= 0.439781

VEL-FPS= 76.313

PO= 14.3811

MACH= 0.0682

CONF= W1B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.5763	-0.0010	-0.2109	-0.0013	-0.0016	-0.0008
2	10.01	-6.00	0.5853	-0.0012	-0.2187	0.0946	0.0120	-0.0226
3	10.01	-4.00	0.5809	0.0035	-0.2147	0.0617	0.0075	-0.0149
4	10.01	-2.00	0.5776	0.0035	-0.2130	0.0370	0.0031	-0.0087
5	10.01	-0.00	0.5795	0.0060	-0.2132	-0.0013	-0.0012	0.0001
6	10.01	1.99	0.5815	0.0037	-0.2137	-0.0369	-0.0054	0.0079
7	10.01	3.99	0.5811	0.0015	-0.2177	-0.0781	-0.0101	0.0149
8	10.01	5.99	0.5841	-0.0006	-0.2211	-0.1083	-0.0137	0.0239
	10.01	-0.00	0.5817	0.0060	-0.2134	-0.0013	-0.0012	-0.0003

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PAGE NO. 227

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 86

TEMP = 105.
RN/FTX10-6 = 0.437794

VEL-FPS = 76.448

PO = 14.3811
MACH = 0.0684

CONF = W1B1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	1.0397	0.0229	-0.3414	0.0009	-0.0008	0.0016
2	20.10	-6.00	1.0674	0.0160	-0.3671	0.0880	-0.0021	-0.0118
3	20.10	-4.00	1.0642	0.0207	-0.3628	0.0498	-0.0025	-0.0041
4	20.10	-2.00	1.0363	0.0253	-0.3445	0.0281	-0.0025	-0.0018
5	20.10	-0.00	1.0416	0.0230	-0.3462	-0.0045	-0.0017	0.0024
6	20.09	1.99	1.0556	0.0207	-0.3537	-0.0344	0.0037	0.0054
7	20.09	3.99	1.0575	0.0208	-0.3589	-0.0618	0.0041	0.0080
8	20.09	5.99	1.0593	0.0163	-0.3654	-0.0891	0.0048	0.0127
9	20.10	-0.00	1.0481	0.0207	-0.3489	-0.0072	0.0016	0.0008

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 87
QPSF = 6.60

RUN NO. 87

TEMP = 101.

PO = 14.3909

RN/FTX10-6 = 0.441973

VEL-FPS = 76.145

MACH = 0.0681

CONF = W1B1V1E(0)GC3

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0242	0.0330	-0.0239	-0.0056	-0.0008	0.0007
2	2.01	-0.00	0.1272	0.0308	-0.0598	-0.0031	-0.0011	0.0007
3	4.03	-0.00	0.2388	0.0264	-0.1010	-0.0088	-0.0006	0.0014
4	5.86	-0.00	0.3374	0.0173	-0.1365	-0.0009	-0.0013	-0.0003
5	7.99	-0.00	0.4512	0.0105	-0.1778	-0.0011	-0.0010	-0.0003
6	10.01	-0.00	0.5770	0.0037	-0.2209	-0.0041	-0.0009	-0.0007
7	12.01	-0.00	0.6887	0.0016	-0.2598	-0.0043	-0.0004	-0.0002
8	14.00	-0.00	0.7949	-0.0004	-0.2975	0.0008	-0.0008	-0.0020
9	16.03	-0.00	0.8828	0.0067	-0.3261	-0.0047	-0.0006	-0.0007
10	18.01	-0.00	0.9655	0.0115	-0.3510	0.0060	-0.0010	-0.0016
11	20.10	-0.00	1.0343	0.0185	-0.3642	-0.0018	0.0045	-0.0009
12	22.03	-0.00	1.0835	0.0232	-0.3713	0.0033	-0.0018	-0.0010
13	23.97	-0.00	1.1168	0.0348	-0.3685	-0.0043	0.0070	-0.0025
14	25.97	-0.00	1.1089	0.0439	-0.3476	0.0037	-0.0013	-0.0021
15	28.01	-0.00	1.2068	0.0441	-0.3749	0.0009	0.0001	-0.0021
16	0.00	0.00	0.0320	0.0306	-0.0234	-0.0056	-0.0011	0.0007

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REPORT NO. LSWT 422
PAGE NO. 229

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 88
QPSF = 6.60

RUN NO. 88

TEMP = 99.
RN/FTX10-6= 0.444118

VEL-FPS= 75.987

PO= 14.4008
MACH= 0.0679

CONF= W1B1V1E(0)GC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0232	0.0306	-0.0209	-0.0083	-0.0014	0.0019
2	2.01	-0.00	0.1274	0.0284	-0.0570	0.0050	-0.0012	0.0004
3	4.03	-0.00	0.2359	0.0263	-0.0934	-0.0006	-0.0014	-0.0004
4	5.86	-0.00	0.3347	0.0171	-0.1237	0.0046	-0.0011	-0.0011
5	7.99	-0.00	0.4628	0.0103	-0.1646	-0.0009	-0.0009	-0.0009
6	10.01	-0.00	0.5757	0.0012	-0.2006	-0.0066	-0.0011	-0.0002
7	12.01	-0.00	0.6942	0.0013	-0.2359	0.0041	-0.0005	-0.0011
8	14.00	-0.00	0.8051	-0.0055	-0.2667	-0.0041	0.0002	-0.0008
9	16.03	-0.00	0.8878	0.0062	-0.2900	-0.0014	0.0007	-0.0009
10	18.01	-0.00	0.9805	0.0063	-0.3098	-0.0016	-0.0025	0.0001
11	20.10	-0.00	1.0636	0.0180	-0.3247	-0.0041	0.0003	0.0007
12	22.03	-0.00	1.1100	0.0155	-0.3206	-0.0065	0.0041	0.0022
13	23.97	-0.00	1.1510	0.0224	-0.3144	-0.0092	-0.0004	0.0040
14	25.97	-0.00	1.1457	0.0339	-0.2849	0.0070	-0.0103	0.0035
15	28.01	-0.00	1.2300	0.0385	-0.2983	-0.0034	-0.0006	0.0026
16	0.00	0.00	0.0331	0.0329	-0.0231	-0.0083	-0.0014	0.0014

REPORT NO. LSWT 422
PAGE NO. 230

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 89
QPSF = 6.60

RUN NO. 89

TEMP = 90.
RN/FTX10-6= 0.453868

VEL-FPS= 75.295

PO= 14.4302
MACH= 0.0673

CONF= B1V1GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.0164	0.0257	0.0003	0.0000	-0.0005	0.0016
2	2.01	-0.00	-0.0028	0.0233	0.0106	-0.0025	-0.0008	0.0016
3	4.03	-0.00	0.0153	0.0254	0.0223	0.0003	-0.0004	0.0010
4	5.86	-0.00	0.0324	0.0182	0.0344	0.0005	-0.0004	0.0009
5	7.99	-0.00	0.0529	0.0251	0.0485	0.0035	-0.0000	0.0002
6	10.01	-0.00	0.0821	0.0202	0.0620	-0.0017	0.0000	0.0009
7	12.01	-0.00	0.1092	0.0223	0.0754	-0.0014	0.0001	0.0008
8	14.00	-0.00	0.1429	0.0268	0.0901	-0.0011	0.0002	0.0013
9	16.03	-0.00	0.1700	0.0242	0.1046	-0.0009	-0.0000	0.0017
10	18.01	-0.00	0.1983	0.0216	0.1213	-0.0033	0.0000	0.0023
11	20.10	-0.00	0.2364	0.0237	0.1362	-0.0030	0.0004	0.0022
12	22.03	-0.00	0.2624	0.0212	0.1512	-0.0082	0.0006	0.0034
13	23.97	-0.00	0.3024	0.0210	0.1595	-0.0026	0.0002	0.0032
14	25.97	-0.00	0.3371	0.0185	0.1716	-0.0024	-0.0000	0.0036
15	28.01	-0.00	0.3706	0.0113	0.1806	-0.0049	0.0004	0.0037
16	0.00	0.00	-0.0066	0.0257	-0.0003	-0.0109	-0.0010	0.0025

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 90

TEMP = 90.
RN/FTX10-6= 0.453884

VEL-FPS= 75.292

PO= 14.4302
MACH= 0.0673

CONF= B1V1GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.0131	0.0304	0.0013	-0.0054	-0.0004	0.0023
2	0.00	-6.00	-0.0028	0.0278	-0.0013	0.0404	0.0081	-0.0198
3	0.00	-4.00	-0.0095	0.0303	0.0005	0.0575	0.0052	-0.0122
4	0.00	-2.00	-0.0118	0.0303	0.0016	0.0438	0.0021	-0.0063
5	0.00	0.00	-0.0131	0.0281	-0.0023	-0.0108	-0.0007	0.0030
6	-0.00	1.99	-0.0111	0.0281	-0.0009	-0.0273	-0.0038	0.0090
7	-0.00	3.99	-0.0103	0.0259	-0.0027	-0.0657	-0.0066	0.0163
8	-0.00	5.99	-0.0051	0.0260	-0.0063	-0.1013	-0.0091	0.0229
9	0.00	-0.00	-0.0099	0.0281	-0.0001	-0.0136	-0.0006	0.0031

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

STATIC TARE 0
QPSF = 6.60

05/02/73

RUN NO. 91

TEMP = 92.
RN/FTX10-6 = 0.451760

VEL-FPS = 75.434

PO = 14.4302
MACH = 0.0674

CONF = B1V1GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.0821	0.0202	0.0625	-0.0071	0.0001	0.0016
2	10.01	-6.00	0.0987	0.0177	0.0528	0.0940	0.0076	-0.0185
3	10.01	-4.00	0.0911	0.0177	0.0585	0.0667	0.0050	-0.0122
4	10.01	-2.00	0.0866	0.0225	0.0616	0.0229	0.0023	-0.0053
5	10.01	-0.00	0.0821	0.0225	0.0615	-0.0071	-0.0002	0.0016
6	10.01	1.99	0.0863	0.0203	0.0608	-0.0427	-0.0023	0.0087
7	10.01	3.99	0.0914	0.0180	0.0559	-0.0674	-0.0053	0.0150
8	10.01	5.99	0.0965	0.0182	0.0500	-0.1003	-0.0078	0.0215
9	10.01	-0.00	0.0865	0.0225	0.0611	-0.0071	0.0001	0.0010

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 92

TEMP = 92.
RN/FTX10-6= 0.451696

VEL-FPS= 75.445

PU= 14.4302
MACH= 0.0675

CONF= B1V1GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	0.2341	0.0238	0.1350	-0.0112	0.0005	0.0030
2	20.10	-6.00	0.2515	0.0190	0.1225	0.0871	0.0064	-0.0094
3	20.10	-4.00	0.2408	0.0237	0.1307	0.0570	0.0032	-0.0057
4	20.10	-2.00	0.2354	0.0237	0.1348	0.0297	0.0016	-0.0026
5	20.10	-0.00	0.2308	0.0238	0.1357	-0.0140	0.0006	0.0031
6	20.09	1.99	0.2340	0.0262	0.1340	-0.0414	-0.0009	0.0062
7	20.09	3.99	0.2393	0.0216	0.1314	-0.0688	-0.0029	0.0098
8	20.09	5.99	0.2498	0.0170	0.1238	-0.0908	-0.0052	0.0128
9	20.10	-0.00	0.2352	0.0238	0.1349	-0.0140	0.0006	0.0031

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 93

TEMP = 96.
RN/FTX10-6= 0.447576

VEL-FPS= 75.715

PD= 14.4302
MACH= 0.0677

CONF= B1V1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.0119	0.0233	0.0033	-0.0026	-0.0005	0.0017
2	0.00	-6.00	-0.0039	0.0208	-0.0024	0.0985	0.0083	-0.0217
3	0.00	-4.00	-0.0116	0.0232	0.0018	0.0857	0.0054	-0.0141
4	0.00	-2.00	-0.0117	0.0233	0.0028	0.0301	0.0026	-0.0064
5	0.00	0.00	-0.0108	0.0233	0.0032	0.0000	-0.0005	0.0016
6	-0.00	1.99	-0.0099	0.0234	0.0023	-0.0328	-0.0037	0.0087
7	-0.00	3.99	-0.0091	0.0212	-0.0017	-0.0630	-0.0066	0.0156
8	-0.00	5.99	-0.0007	0.0190	-0.0055	-0.0904	-0.0096	0.0225
9	0.00	-0.00	-0.0097	0.0233	0.0032	-0.0026	-0.0005	0.0017

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REPORT NO. LSWT 422
PAGE NO. 235

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 94

TEMP = 97.
RN/FTX10-6= 0.446536

VEL-FPS= 75.786

PO= 14.4302
MACH= 0.0678

CONF= B1V1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	10.01	-0.00	0.0352	0.0230	0.0228	0.0004	-0.0001	0.0015
2	10.01	-6.00	0.0506	0.0182	0.0133	0.0933	0.0058	-0.0183
3	10.01	-4.00	0.0408	0.0206	0.0186	0.0660	0.0035	-0.0120
4	10.01	-2.00	0.0385	0.0207	0.0207	0.0222	0.0018	-0.0051
5	10.01	-0.00	0.0373	0.0231	0.0222	-0.0105	0.0000	0.0018
6	10.01	1.99	0.0393	0.0208	0.0203	-0.0379	-0.0022	0.0076
7	10.01	3.99	0.0434	0.0185	0.0173	-0.0625	-0.0042	0.0139
8	10.01	5.99	0.0486	0.0163	0.0119	-0.0872	-0.0058	0.0196
9	10.01	-0.00	0.0330	0.0207	0.0235	0.0004	-0.0004	0.0015

REPORT NO. LSWT 422
PAGE NO. 236

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 95

TEMP = 99.

PO = 14.4302

RN/FTX10-6 = 0.444532

VEL-FPS = 75.916

MACH = 0.0679

CONF = B1V1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	20.10	-0.00	0.1062	0.0298	0.0342	-0.0046	0.0000	0.0026
2	20.10	-6.00	0.1194	0.0250	0.0253	0.0908	0.0029	-0.0145
3	20.10	-4.00	0.1117	0.0250	0.0292	0.0663	0.0023	-0.0099
4	20.10	-2.00	0.1074	0.0297	0.0332	0.0308	0.0012	-0.0039
5	20.10	-0.00	0.1062	0.0298	0.0342	-0.0156	0.0002	0.0035
6	20.09	1.99	0.1060	0.0299	0.0338	-0.0429	-0.0010	0.0093
7	20.09	3.99	0.1102	0.0253	0.0309	-0.0730	-0.0022	0.0146
8	20.09	5.99	0.1186	0.0231	0.0252	-0.1004	-0.0028	0.0188
9	20.10	-0.00	0.1073	0.0345	0.0335	-0.0101	0.0001	0.0028

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VSD. LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 96
QPSF = 6.60

RUN NO. 96

TEMP = 100.
RN/FTX10-6= 0.443504

VEL-FPS= 75.987

PU= 14.4302
MACH= 0.0679

CONF= B1V1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.0075	0.0210	0.0031	-0.0054	-0.0005	0.0012
2	2.01	-0.00	-0.0029	0.0186	0.0070	-0.0053	-0.0001	0.0017
3	4.03	-0.00	0.0103	0.0186	0.0098	-0.0052	-0.0001	0.0017
4	5.86	-0.00	0.0160	0.0208	0.0145	-0.0052	-0.0004	0.0017
5	7.99	-0.00	0.0250	0.0208	0.0180	-0.0051	-0.0004	0.0017
6	10.01	-0.00	0.0384	0.0207	0.0212	-0.0050	-0.0000	0.0017
7	12.01	-0.00	0.0507	0.0207	0.0246	-0.0049	-0.0003	0.0016
8	14.00	-0.00	0.0596	0.0230	0.0276	-0.0103	-0.0002	0.0029
9	16.03	-0.00	0.0773	0.0229	0.0300	-0.0048	-0.0003	0.0021
10	18.01	-0.00	0.0906	0.0228	0.0323	-0.0102	-0.0002	0.0034
11	20.10	-0.00	0.1084	0.0251	0.0342	-0.0101	-0.0001	0.0034
12	22.03	-0.00	0.1195	0.0251	0.0376	-0.0128	-0.0001	0.0034
13	23.97	-0.00	0.1372	0.0250	0.0396	-0.0100	-0.0001	0.0033
14	25.97	-0.00	0.1506	0.0273	0.0432	-0.0099	0.0002	0.0027
15	28.01	-0.00	0.1651	0.0249	0.0460	-0.0125	0.0003	0.0033
16	0.00	0.00	-0.0075	0.0210	0.0026	-0.0054	-0.0005	0.0012

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PAGE NO. 238

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 97
QPSF = 6.60

RUN NO. 97

TEMP = 80.
RN/FTX10-6 = 0.466574

VEL-FPS = 74.288

PO = 14.5628
MACH = 0.0664

CONF = W2B1V1E(0)

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	0.0256	0.0352	-0.0194	0.0025	-0.0012	0.0010
2	2.01	-0.00	0.1217	0.0285	-0.0608	0.0050	-0.0012	0.0004
3	4.03	-0.00	0.2277	0.0241	-0.1044	0.0074	-0.0015	-0.0001
4	5.86	-0.00	0.3378	0.0198	-0.1525	0.0016	-0.0011	0.0006
5	7.99	-0.00	0.4501	0.0131	-0.2016	0.0039	-0.0021	0.0006
6	10.01	-0.00	0.5645	0.0088	-0.2524	-0.0046	-0.0019	0.0009
7	12.01	-0.00	0.6726	0.0067	-0.2990	0.0059	-0.0024	-0.0004
8	14.00	-0.00	0.7859	0.0047	-0.3493	0.0056	-0.0013	-0.0003
9	16.03	-0.00	0.9100	0.0099	-0.4086	0.0107	-0.0036	-0.0010
10	18.01	-0.00	1.0578	-0.0013	-0.4738	0.0021	0.0008	0.0008
11	20.10	-0.00	1.1878	-0.0080	-0.5228	0.0046	0.0024	0.0002
12	22.03	-0.00	1.2308	-0.0081	-0.5212	0.0020	0.0032	0.0008
13	23.97	-0.00	1.1930	0.0008	-0.4814	0.0051	0.0026	0.0001
14	25.97	-0.00	1.1558	0.0169	-0.4540	0.0026	0.0023	-0.0009
15	28.01	-0.00	1.1207	0.0307	-0.4261	0.0083	-0.0003	-0.0021
16	0.00	0.00	0.0365	0.0399	-0.0217	-0.0056	-0.0010	0.0013

REPORT NO. LSVT 422
PAGE NO. 239

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 98

TEMP = 80.
RN/FTX10-6 = 0.466557

VEL-FPS = 74.290

PO = 14.5628
MACH = 0.0664

CONF = W2B1V1E(0)SC1

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	16.03	-0.00	0.9098	0.0135	-0.3157	0.0009	-0.0006	0.0011
2	16.03	-6.00	0.9122	0.0063	-0.3209	0.1023	0.0105	-0.0228
3	16.03	-4.00	0.9101	0.0110	-0.3167	0.0749	0.0072	-0.0159
4	16.03	-2.00	0.9079	0.0111	-0.3132	0.0312	0.0045	-0.0074
5	16.03	-0.00	0.9034	0.0135	-0.3105	0.0010	0.0000	0.0011
6	16.03	1.99	0.9084	0.0113	-0.3159	-0.0346	-0.0048	0.0089
7	16.03	3.99	0.9093	0.0114	-0.3187	-0.0621	-0.0081	0.0163
8	16.03	5.99	0.9067	0.0068	-0.3221	-0.0841	-0.0118	0.0230
16.03	-0.00	0.9076	0.0135	-0.3141	0.0037	-0.0007	0.0005	

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REPORT NO. LSMT 422

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 99
QPSF = 6.60

RUN NO. 99

TEMP = 94.

PO = 14.5628

RN/FTX10-6 = 0.451601

VEL-FPS = 75.250

MACH = 0.0673

CONF = W2B1V1E(10)SC2

PT	ALPHA	BETA	CN	CA	CH	CY	CRM	CYM
1	0.00	0.00	0.2750	0.0502	-0.2030	0.0008	-0.0024	0.0008
2	2.01	-0.00	0.3718	0.0557	-0.2301	0.0007	-0.0020	0.0003
3	4.03	-0.00	0.4904	0.0488	-0.2628	0.0060	-0.0020	-0.0003
4	5.86	-0.00	0.6024	0.0513	-0.2949	0.0005	-0.0019	0.0003
5	7.99	-0.00	0.7317	0.0445	-0.3336	0.0030	-0.0022	0.0002
6	10.01	-0.00	0.8427	0.0446	-0.3632	0.0002	-0.0017	0.0008
7	12.01	-0.00	0.9580	0.0377	-0.3953	0.0055	-0.0020	-0.0003
8	14.00	-0.00	1.0581	0.0402	-0.4233	0.0082	-0.0006	-0.0010
9	16.03	-0.00	1.1777	0.0427	-0.4573	0.0053	-0.0001	-0.0004
10	18.01	-0.00	1.2937	0.0452	-0.4958	0.0051	-0.0014	0.0012
11	20.10	-0.00	1.4184	0.0385	-0.5393	0.0022	0.0000	0.0013
12	22.03	-0.00	1.5261	0.0433	-0.5693	-0.0006	-0.0008	0.0019
13	23.97	-0.00	1.5930	0.0433	-0.5766	0.0048	-0.0005	0.0006
14	25.97	-0.00	1.6270	0.0453	-0.5571	0.0108	0.0021	0.0003
15	28.01	-0.00	1.6284	0.0520	-0.5266	0.0083	-0.0006	-0.0006
16	0.00	0.00	0.2782	0.0603	-0.2051	-0.0046	-0.0024	0.0016

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 99
QPSF = 6.60

RUN NO. 100

TEMP = 94.

PO= 14.5628

RN/FTX10-6= 0.451665

VEL-FPS= 75.239

MACH= 0.0673

CONF= WIBLVIE(-10)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	0.00	0.00	-0.2211	0.0335	0.1731	0.0017	-0.0004	0.0012
2	2.01	-0.00	-0.1232	0.0360	0.1466	0.0016	-0.0007	0.0012
3	4.03	-0.00	-0.0121	0.0361	0.1193	-0.0012	-0.0005	0.0008
4	5.86	-0.00	0.0935	0.0362	0.0943	0.0014	-0.0008	0.0007
5	7.99	-0.00	0.2121	0.0223	0.0622	0.0013	-0.0004	0.0001
6	10.01	-0.00	0.3306	0.0224	0.0274	0.0011	-0.0010	0.0007
7	12.01	-0.00	0.4610	0.0156	-0.0117	-0.0044	-0.0005	0.0014
8	14.00	-0.00	0.5826	0.0111	-0.0504	0.0007	-0.0005	0.0012
9	16.03	-0.00	0.7053	0.0113	-0.0688	0.0033	-0.0011	0.0012
10	18.01	-0.00	0.8256	0.0093	-0.1312	0.0003	-0.0000	0.0013
11	20.10	-0.00	0.9492	0.0025	-0.1751	0.0055	-0.0000	0.0006
12	22.03	-0.00	1.0708	0.0003	-0.2134	0.0081	-0.0000	0.0000
13	23.97	-0.00	1.1774	-0.0041	-0.2439	0.0025	-0.0002	0.0007
14	25.97	-0.00	1.2765	-0.0087	-0.2674	0.0105	-0.0012	-0.0006
15	28.01	-0.00	1.3596	-0.0087	-0.2824	0.0106	0.0005	-0.0017
16	0.00	0.00	-0.2060	0.0383	0.1666	-0.0065	-0.0006	0.0015

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 99
QPSF = 6.60

RUN NO. 101

TEMP = 94.
RN/FTX10-6= 0.451553

VEL-FPS= 75.258

PO= 14.5628
MACH= 0.0673

CONF= WIB1V1E(0)SC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	-0.00	1.99	0.0288	0.0282	-0.0160	-0.0301	-0.0027	0.0091
2	2.01	1.99	0.1257	0.0307	-0.0405	-0.0330	-0.0036	0.0092
3	4.02	1.99	0.2411	0.0261	-0.0712	-0.0304	-0.0039	0.0086
4	5.86	1.99	0.3499	0.0263	-0.1002	-0.0414	-0.0046	0.0100
5	7.99	1.99	0.4717	0.0171	-0.1350	-0.0307	-0.0057	0.0081
6	10.01	1.99	0.5913	0.0172	-0.1690	-0.0309	-0.0063	0.0092
7	12.01	1.99	0.7119	0.0104	-0.2042	-0.0338	-0.0068	0.0098
8	13.99	1.99	0.8325	0.0129	-0.2421	-0.0312	-0.0061	0.0092
9	16.03	1.99	0.9466	0.0131	-0.2757	-0.0286	-0.0064	0.0091
10	18.01	1.99	1.0659	0.0133	-0.3163	-0.0315	-0.0056	0.0092
11	20.09	1.99	1.1982	0.0066	-0.3636	-0.0264	-0.0073	0.0096
12	22.03	1.99	1.3144	0.0068	-0.3992	-0.0293	-0.0075	0.0113
13	23.97	1.99	1.4038	0.0021	-0.4196	-0.0320	-0.0060	0.0114
14	25.97	1.99	1.4825	0.0068	-0.4320	-0.0399	-0.0001	0.0137
15	28.01	1.99	1.5377	0.0066	-0.4286	-0.0397	-0.0000	0.0141
16	-0.00	1.99	0.0397	0.0330	-0.0198	-0.0411	-0.0032	0.0100

REPORT NO. LSNT 422

PAGE NO. 243

VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE 0
QPSF = 6.60

RUN NO. 102

TEMP = 94.
RN/FTX10-6= 0.451585

VEL-FPS= 75.253

PO= 14.5628
MACH= 0.0673

CONF= WIBIVIE(0)SC2

PT	ALPHA	BETA	CN	CA	CH	CY	CRM	CYM
1	16.03	-0.00	0.9490	0.0153	-0.2751	-0.0038	-0.0004	0.0017
2	16.03	-6.00	0.9406	0.0058	-0.2800	0.0948	0.0141	-0.0222
3	16.03	-4.00	0.9449	0.0105	-0.2776	0.0592	0.0099	-0.0139
4	16.03	-2.00	0.9470	0.0129	-0.2754	0.0344	0.0040	-0.0076
5	16.03	-0.00	0.9490	0.0107	-0.2745	-0.0120	0.0000	0.0025
6	16.03	1.99	0.9520	0.0108	-0.2774	-0.0341	-0.0063	0.0098
7	16.03	3.99	0.9539	0.0085	-0.2821	-0.0589	-0.0113	0.0167
8	16.03	5.99	0.9524	0.0087	-0.2806	-0.0973	-0.0151	0.0234
9	16.03	-0.00	0.9556	0.0130	-0.2760	-0.0066	-0.0017	0.0029

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VSD LOW SPEED WIND TUNNEL TEST 422
BODY AXES

05/02/73

STATIC TARE = 0
QPSF = 6.60

RUN NO. 103

TEMP = 94.
RH/FTX10-6= 0.451368

VEL-FPS= 75.289

PO= 14.5481
MACH= 0.0673

CONF= KIB1V1E(0)GC2

PT	ALPHA	BETA	CN	CA	CM	CY	CRM	CYM
1	16.03	-0.00	0.9585	0.0087	-0.3097	-0.0016	-0.0015	0.0001
2	16.03	-6.00	0.9481	0.0038	-0.3095	0.0998	0.0122	-0.0250
3	16.03	-4.00	0.9513	0.0062	-0.3078	0.0696	0.0070	-0.0174
4	16.03	-2.00	0.9522	0.0086	-0.3065	0.0312	0.0026	-0.0090
5	16.03	-0.00	0.9629	0.0087	-0.3110	0.0038	-0.0006	-0.0005
6	16.03	1.99	0.9614	0.0088	-0.3131	-0.0453	-0.0029	0.0097
7	16.03	3.99	0.9591	0.0065	-0.3128	-0.0673	-0.0076	0.0175
8	16.03	5.99	0.9565	0.0020	-0.3166	-0.1031	-0.0131	0.0252
9	16.03	-0.00	0.9638	0.0087	-0.3134	-0.0124	0.0009	0.0015